

Cubiscan [325v3]



Operations and technical manual

Version [1.1]

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Cubing and weighing systems

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CUBISCAN®

Cubiscan [325v3] operations and technical manual

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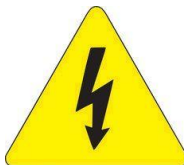
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CAUTION

The Cubiscan [325v3] should only be serviced by qualified personnel.

Observe precautions for handling electrostatic sensitive devices when setting up or operating the Cubiscan [325v3].



WARNING

Disconnect all power to the Cubiscan [325v3] before servicing or making any connections.



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4. Not been operated or maintained in accordance with Seller's instructions.
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6. Had serial numbers altered, defaced or removed.
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Manual updated 2026-05-27

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1.PRODUCT DESCRIPTION

The Cubiscan 325v3 is a large, static cubing system that uses sensing technologies to measure and weigh irregularly-shaped parts and components as well as boxed items. Small and large items are measured with great precision using infrared sensing technology. The sensing gate is moved by hand to allow the user complete control over the measuring process.

The Cubiscan 325v3 is commonly used to improve storage-space planning, for carton size selection, repacking, check-weighing, and shipment manifesting in medical, pharmaceutical, apparel, hardware, and consumer goods distribution. It has an integrated touchscreen display and outputs to a user-supplied PC. Capacity for irregular items can be measured up to 36 x 24 x 24 inches with a resolution of 0.05 inches. The Cubiscan 325v3 also includes an integrated, high-accuracy 50 x 0.005 lb scale.

Each unit has one active serial communication port, one Ethernet port, one USB-B port and three USB-A ports. Proprietary interface software, called Qbit™, is available and allows for menu-driven operator control, data storage/transfer, and diagnostics. A mobile cart and useful accessories such as a portable power supply are available to create a completely mobile cubing, weighing, and identification workstation.

The Cubiscan 325v3 uses powerful sensing technologies to create a flexible and economical solution for today's most demanding cubing and weighing applications.



Figure 1: Cubiscan 325v3

Specifications



Power

Power requirements: 100 – 240 VAC, 50 – 60 Hz

Pollution levels: Normal environmental condition of degree 2 according to 61010-1 guidelines.

Environmental

The Cubiscan 325v3 is intended for indoor use only.

Operating temperature: 14° to 104° F (-10° to 40° C)

Humidity: 0 to 90% non-condensing

Working altitude: Normal environmental condition up to 2000m according to 61010-1 guidelines.

Measuring sensor

Infrared light beam

Measuring capacities

Measurement range

Length: 0.10 to 36.00 in (0.2 to 90.0 cm)

Width: 0.10 to 24.00 in (0.2 to 60.0 cm)

Height: 0.10 to 24.00 in (0.2 to 60.0 cm)

Measurement increment: 0.05 in (0.1 cm)

Measurement time: 3-7 seconds

Object characteristics: Opaque

Weight capacity: 0.005 to 50.000 lb (0.002 to 25.000 kg)

Weight increment: 0.005 lb (0.002 kg)

Physical

Length: 49 in (125 cm)

Width: 38 in (97 cm)

Height: 38 in (97 cm)

Weight: 173 lbs (78.5 kg)

User Interface

Software: Cubiscan's QBIT™ software can be used to interface with the Cubiscan 325v3.

Display: Integrated TFT LCD touchscreen displays L, W, H, weight, unit of measure, 2D and height profile, and diagnostic codes.

Outputs: Serial (1), Ethernet (1), USB-B (1), USB-A(3)

UL Declaration



This product is UL certified, providing the best quality in product and services.

Underwriters Laboratories (UL) is globally recognized for providing quality and safety assurance by certifying products through extensive testing. It is an independent, not-for-profit organization, providing inspection and testing of manufacturer products to ensure conformity to established safety and quality standards.

While the Cubiscan 325v3 is UL certified, optional accessories such as the cart, laptop tray, camera kit, portable power kit, and barcode scanner are not under the scope of the UL certification or CB Scheme used for certification. Likewise, any 3rd party products used with the CS325v3 do not fall under the scope of the UL certification.

Safety Precautions



The following section outlines safety and precautions when using the CS325v3. If the equipment is used in a manner not specified by us, the safety and protections provided by the CS325v3 may be impaired and the warranty voided.

Definitions

Safety definitions are designed in adherence to American National Standards Institute (ANSI) safety sign standards to ensure that the Cubiscan is operated and maintained correctly and safely.



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.

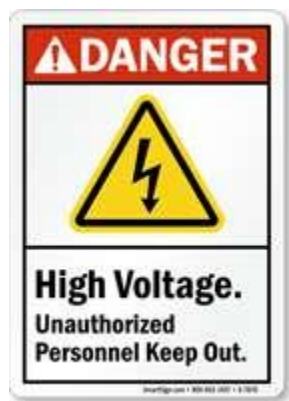


IMPORTANT: Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

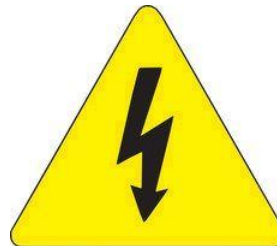
Labels

Labels are provided with the Cubiscan to alert operators of potential hazards. Ensure that the labels are properly displayed on the unit and in its vicinity. Do not remove or alter labels for any reason without first consulting a Cubiscan representative.

Danger High Voltage



Electric Shock



Caution



Warning

Do not use Cubiscan near electronic devices that handle high-precision control or weak signals as it may affect electronic devices leading to malfunction.

Do not allow foreign matter or liquids to get inside the machine. Doing so may cause short circuit or smoke, resulting in fire, electric shock, or malfunction. If foreign matter or liquid gets inside the Cubiscan, immediately turn off the machine and unplug it from the outlet.

If the Cubiscan is dropped or suffers a strong impact, immediately turn it off and unplug it from the outlet. Continued use may cause fire, electric shock, injury, or malfunction.

Do not operate the touch panel with sharp objects. Pressing the touch panel strongly with a sharp object may cause damage, leading to malfunction.

Do not climb onto or lean on the Cubiscan. Doing so may cause injury.

Regular cleaning and calibration tests are required to maintain accurate measurements. Run calibration tests after any maintenance work.

Turn off power to the Cubiscan and unplug it immediately if the machine gives off an odd smell, makes unusual sounds, emits smoke, or overheats. **Call Cubiscan Technical Assistance at 801.451.0500** for assistance. Failure to do so could result in fire, accidental electrocution, and possible machine damage.

Electric Hazards

Avoid handling electric cables, plugs, and other electrical components when connected to a live power source. Follow these safety standards when working with electrical components of the Cubiscan:

- Turn off the power to the machine before unplugging.
- Be sure to hold the plug, NOT the power cable, when unplugging.
- Whenever handling electrical cables or components, do so with care.
- Never place cables and other electrical components near a heat source.
- Ensure that grounding wires are in place and secure before operating the Cubiscan.
- Avoid stepping on or placing heavy objects on cables.
- Do not modify, bend, or otherwise tamper with cables and other electrical components.

If damage is observed from a cable, plug, or other electrical component, turn off the machine immediately and unplug it from the power source. Consult a Cubiscan trained technician for replacement.

If you do not use the unit for a long time, disconnect the power plug from the outlet to ensure safety. Allowing it to remain plugged in over a long period of time without use may cause fire or electric shock.

Failure to observe safe electrical standards may result in accidental electrocution, damage to the machine, fire, and possible injury or death.

Heat Warning

Motors and other electrical components, especially batteries, heat up during use. If the unit is used extensively, these parts may become overheated causing a potential hazard to the machine and the operator.

To avoid injury, when working around motors and other electrical components, avoid contact with these parts during operation and shortly after. Even with the power off heat may be retained in the part for several minutes after operation.

If you find certain parts are heating well beyond the temperature threshold, shut down the unit to prevent injury. Ensure that the problem is not a result of the surrounding environment. If it is, move the unit to a more suitable environment. If the problem persists, consult a Cubiscan technician.

Environment

The Cubiscan should not be installed in any environment where excessive heat, humidity, or dust is present. Variations in temperature or direct exposure to sunlight may cause inaccuracies in measurements and could damage sensors. Do not install near fans where temperatures may fluctuate, causing variations in measurements.

Do not install the Cubiscan in a location that is inclined as this will affect the precision of its measurement and may contribute to instability resulting injury if the unit tips over. Install the unit on a flat surface and stable location, where it can easily be leveled.

Some setups will require multiple cables running to the Cubiscan. This may cause a potential tripping hazard that can damage the unit and cause injury. Install the unit in a low traffic area, where wires may be tucked against a wall or some other inconspicuous place. If wire must be run in a traffic area, take precautions to prevent tripping such as taping the cables to the floor or providing a cable ramp or other protective cover.

Accessories

Certain accessories used with the Cubiscan may pose risk outside the scope of the standalone unit. These may include but are not limited to scales, portable batteries, camera units, shrink wrappers, etc. Please consult additional documentation for the individual units. A collection of this documentation for each accessory sold with the unit may be found on the Cubiscan website: <https://cubiscan.com/guides-accessories/>

Cubiscan is not responsible for third party accessories used with the unit. Before using third party accessories, consult a Cubiscan sales representative or technician to ensure that the implementation of the accessory will not pose a safety risk, harm the Cubiscan, or potentially void the warranty.

Précautions de Sécurité



La section suivante décrit les consignes de sécurité et les précautions à respecter lors de l'utilisation du CS325v3. Si l'équipement est utilisé d'une manière non spécifiée par nos soins, les dispositifs de sécurité et de protection fournis par le CS325v3 peuvent être compromis et la garantie annulée.

Définitions

Les définitions de sécurité sont établies conformément aux normes de signalisation de sécurité de l'American National Standards Institute (ANSI), afin de garantir que le Cubiscan est utilisé et entretenu correctement et en toute sécurité.



DANGER: Indique une situation dangereuse imminente qui, si elle n'est pas évitée, entraînera la mort ou des blessures graves. Inclut les dangers exposés lorsque les dispositifs de protection sont retirés.



AVERTISSEMENT: Indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures graves ou la mort. Inclut les dangers exposés lorsque les dispositifs de protection sont retirés.



ATTENTION: Indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures mineures ou modérées.

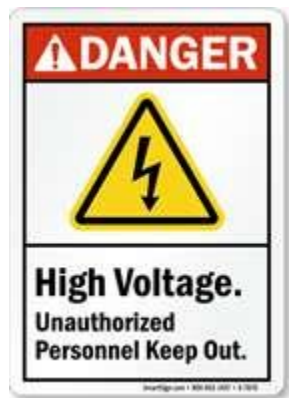


IMPORTANT: Indique des informations relatives aux procédures qui, si elles ne sont pas respectées, peuvent entraîner des dommages à l'équipement ou la corruption et la perte de données. Labels

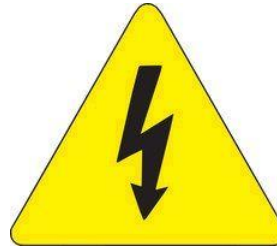
Étiquettes

Des étiquettes sont fournies avec le Cubiscan afin d'alerter les opérateurs des dangers potentiels. Assurez-vous que les étiquettes sont correctement affichées sur l'appareil et à proximité. Ne retirez ni ne modifiez les étiquettes pour quelque raison que ce soit sans avoir préalablement consulté un représentant Cubiscan.

Danger Haute Tension



Choc Électrique



Attention



Avertissement

N'utilisez pas le Cubiscan à proximité d'appareils électroniques nécessitant un contrôle de haute précision ou traitant des signaux faibles, car cela pourrait perturber leur fonctionnement.

N'introduisez aucun corps étranger ni liquide dans l'appareil. Cela pourrait provoquer un court-circuit ou de la fumée, entraînant un incendie, un choc électrique ou un dysfonctionnement. Si un corps étranger ou un liquide pénètre dans le Cubiscan, éteignez immédiatement l'appareil et débranchez-le.

Si le Cubiscan tombe ou subit un choc important, éteignez-le immédiatement et débranchez-le. Une utilisation continue peut entraîner un incendie, un choc électrique, des blessures ou un dysfonctionnement.

N'utilisez pas d'objets pointus sur l'écran tactile. Une pression excessive avec un objet pointu peut l'endommager et entraîner un dysfonctionnement.

Ne montez pas sur le Cubiscan et ne vous y appuyez pas. Cela pourrait entraîner des blessures.

Un nettoyage régulier et des tests d'étalonnage sont nécessaires pour maintenir la précision des mesures. Effectuez des tests d'étalonnage après toute opération de maintenance.

Éteignez immédiatement le Cubiscan et débranchez-le s'il dégage une odeur inhabituelle, produit des bruits anormaux, émet de la fumée ou surchauffe. Contactez l'assistance technique Cubiscan au 801.451.0500. Le non-respect de cette consigne peut entraîner un incendie, une électrocution ou des dommages à l'appareil.

Risques électriques

Évitez de manipuler les câbles électriques, les fiches et autres composants électriques lorsqu'ils sont sous tension. Respectez les consignes de sécurité suivantes lors de toute intervention sur les composants électriques du Cubiscan:

- Coupez l'alimentation avant de débrancher.
- Tenez la fiche, et non le câble, pour débrancher.
- Manipulez les composants électriques avec précaution.
- Ne placez jamais les câbles à proximité d'une source de chaleur.
- Assurez-vous que les connexions de mise à la terre sont en place et sécurisées.
- Évitez de marcher sur les câbles ou d'y poser des objets lourds.
- Ne modifiez pas et ne pliez pas les câbles.

En cas de dommage constaté sur un câble, une fiche ou tout autre composant électrique, mettez immédiatement l'appareil hors tension et débranchez-le de la source d'alimentation. Consultez un technicien Cubiscan qualifié pour le remplacement.

Si l'appareil n'est pas utilisé pendant une période prolongée, débranchez la fiche d'alimentation de la prise afin de garantir la sécurité. Le fait de laisser l'appareil branché pendant une longue période sans utilisation peut entraîner un risque d'incendie ou de choc électrique.

Le non-respect des consignes de sécurité électrique peut entraîner une électrocution accidentelle, des dommages à l'appareil, un incendie, ainsi que des blessures graves ou la mort.

Avertissement relatif à la chaleur

Les moteurs et autres composants électriques, en particulier les batteries, chauffent pendant l'utilisation. En cas d'utilisation intensive de l'appareil, ces composants peuvent surchauffer, ce qui peut présenter un danger potentiel pour l'équipement et l'opérateur.

Afin d'éviter tout risque de blessure, lors d'interventions à proximité des moteurs et autres composants électriques, évitez tout contact avec ces éléments pendant le fonctionnement ainsi que immédiatement après l'arrêt. Même après la mise hors tension, ces composants peuvent conserver de la chaleur pendant plusieurs minutes après l'utilisation.

Si vous constatez que certains composants dépassent largement le seuil de température admissible, arrêtez immédiatement l'appareil afin de prévenir tout risque de blessure. Assurez-vous que ce phénomène n'est pas dû aux conditions environnementales. Si tel est le cas, déplacez l'appareil vers un environnement plus approprié. Si le problème persiste, consultez un technicien Cubiscan.

Environnement

Le Cubiscan ne doit pas être installé dans un environnement présentant une chaleur excessive, une humidité élevée ou une forte présence de poussière. Les variations de température ou une exposition directe à la lumière du soleil peuvent entraîner des imprécisions de mesure et endommager les capteurs. N'installez pas l'appareil à proximité de ventilateurs susceptibles de provoquer des variations de température, ce qui pourrait affecter la précision des mesures.

N'installez pas le Cubiscan sur une surface inclinée, car cela peut affecter la précision des mesures et entraîner une instabilité de l'appareil, pouvant

provoquer des blessures en cas de basculement. Installez l'appareil sur une surface plane et dans un emplacement stable, permettant un nivellement correct.

Certaines configurations nécessitent l'utilisation de plusieurs câbles reliés au Cubiscan. Cela peut constituer un risque de trébuchement susceptible d'endommager l'appareil et de provoquer des blessures. Installez l'appareil dans une zone à faible passage, où les câbles peuvent être disposés le long d'un mur ou dans un endroit discret. Si les câbles doivent traverser une zone de passage, prenez des mesures pour éviter tout risque de chute, telles que la fixation des câbles au sol ou l'utilisation de rampes de protection ou d'autres dispositifs de couverture.

Accessoires

Certains accessoires utilisés avec le Cubiscan peuvent présenter des risques ne relevant pas du fonctionnement de l'unité autonome. Ceux-ci incluent, sans s'y limiter : des balances, des batteries portables, des unités de caméra, des machines de film rétractable, etc. Veuillez consulter la documentation spécifique à chaque équipement. Un ensemble de cette documentation pour chaque accessoire vendu avec l'appareil est disponible sur le site Web de Cubiscan : <https://cubiscan.com/guides-accessories/>

Cubiscan décline toute responsabilité concernant les accessoires tiers utilisés avec l'appareil. Avant d'utiliser des accessoires tiers, consultez un représentant commercial ou un technicien Cubiscan afin de vous assurer que leur utilisation ne présente aucun risque pour la sécurité, n'endommage pas le Cubiscan et n'entraîne pas l'annulation de la garantie.

Sicherheitsvorkehrungen



Der folgende Abschnitt beschreibt die Sicherheitsvorkehrungen und Vorsichtsmaßnahmen bei der Verwendung des CS325v3. Wird das Gerät nicht entsprechend unseren Vorgaben verwendet, können die durch den CS325v3 gewährleisteten Sicherheits- und Schutzfunktionen beeinträchtigt werden und die Garantie erlöschen.

Definitionen

Die Sicherheitsdefinitionen wurden gemäß den Sicherheitskennzeichnungsstandards des American National Standards Institute (ANSI) erstellt, um sicherzustellen, dass der Cubiscan korrekt und sicher betrieben sowie gewartet wird.



GEFAHR: Kennzeichnet eine unmittelbar gefährliche Situation, die — wenn sie nicht vermieden wird — zum Tod oder zu schweren Verletzungen führt. Umfasst auch Gefahren, die bei entfernten Schutzabdeckungen auftreten.



WARNUNG: Kennzeichnet eine potenziell gefährliche Situation, die — wenn sie nicht vermieden wird — zu schweren Verletzungen oder zum Tod führen kann. Umfasst auch Gefahren, die bei entfernten Schutzabdeckungen auftreten.



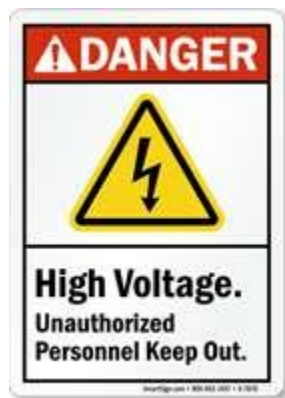
VORSICHT: Kennzeichnet eine potenziell gefährliche Situation, die — wenn sie nicht vermieden wird — zu leichten oder mittelschweren Verletzungen führen kann.

WICHTIG: Kennzeichnet Informationen zu Verfahren, deren Nichtbeachtung zu Schäden am Gerät oder zur Beschädigung bzw. zum Verlust von Daten führen kann.

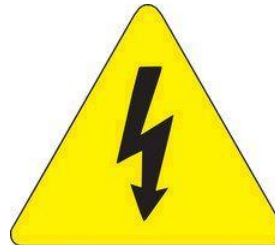
Kennzeichnungen

Am Cubiscan sind Kennzeichnungen angebracht, um Bediener auf potenzielle Gefahren hinzuweisen. Stellen Sie sicher, dass die Kennzeichnungen ordnungsgemäß am Gerät sowie in dessen Umgebung sichtbar angebracht sind. Entfernen oder verändern Sie die Kennzeichnungen aus keinem Grund, ohne zuvor einen Vertreter von Cubiscan zu konsultieren.

Gefahr – Hochspannung



Stromschlaggefahr



Vorsicht



Warnung

Verwenden Sie den Cubiscan nicht in der Nähe elektronischer Geräte, die hochpräzise Steuerungen oder schwache Signale verarbeiten, da dies elektronische Geräte beeinträchtigen und zu Fehlfunktionen führen kann.

Lassen Sie keine Fremdkörper oder Flüssigkeiten in das Gerät gelangen. Andernfalls kann es zu Kurzschluss oder Rauchentwicklung kommen, was Brand, Stromschlag oder Fehlfunktionen verursachen kann. Gelangen Fremdkörper oder Flüssigkeiten in den Cubiscan, schalten Sie das Gerät sofort aus und ziehen Sie den Netzstecker aus der Steckdose.

Wenn der Cubiscan herunterfällt oder starken Erschütterungen ausgesetzt wird, schalten Sie ihn sofort aus und ziehen Sie den Netzstecker aus der Steckdose. Der weitere Betrieb kann zu Brand, Stromschlag, Verletzungen oder Fehlfunktionen führen.

Bedienen Sie das Touchpanel nicht mit scharfen Gegenständen. Starkes Drücken mit einem scharfen Gegenstand kann Beschädigungen verursachen und zu Fehlfunktionen führen.

Steigen Sie nicht auf den Cubiscan und lehnen Sie sich nicht daran an. Dies kann zu Verletzungen führen.

Zur Gewährleistung genauer Messergebnisse sind regelmäßige Reinigungen und Kalibrierungstests erforderlich. Führen Sie nach allen Wartungsarbeiten Kalibrierungstests durch.

Schalten Sie den Cubiscan sofort aus und ziehen Sie den Netzstecker, wenn das Gerät ungewöhnliche Gerüche abgibt, ungewöhnliche Geräusche macht, Rauch entwickelt oder überhitzt. Wenden Sie sich an den technischen Support von Cubiscan unter 801.451.0500. Andernfalls kann dies zu Brand, versehentlichem Stromschlag und möglichen Schäden am Gerät führen.

Elektrische Gefahren

Vermeiden Sie das Berühren von elektrischen Kabeln, Steckern und anderen elektrischen Komponenten, wenn diese an eine spannungsführende Stromquelle angeschlossen sind. Beachten Sie beim Arbeiten mit elektrischen Komponenten des Cubiscan die folgenden Sicherheitsvorschriften:

- Schalten Sie das Gerät aus, bevor Sie den Netzstecker ziehen.
- Halten Sie beim Herausziehen des Netzsteckers immer den Stecker fest — NICHT das Netzkabel.
- Gehen Sie beim Umgang mit elektrischen Kabeln oder Komponenten stets vorsichtig vor.
- Legen Sie Kabel und andere elektrische Komponenten niemals in die Nähe einer Wärmequelle.
- Stellen Sie sicher, dass die Erdungsleitungen vor dem Betrieb des Cubiscan ordnungsgemäß angebracht und sicher befestigt sind.
- Vermeiden Sie es, auf Kabel zu treten oder schwere Gegenstände darauf abzustellen.
- Verändern, biegen oder manipulieren Sie Kabel und andere elektrische Komponenten nicht.

Wenn Schäden an einem Kabel, Stecker oder anderen elektrischen Komponenten festgestellt werden, schalten Sie das Gerät sofort aus und trennen Sie es von der Stromversorgung. Wenden Sie sich für den Austausch an einen von Cubiscan geschulten Techniker.

Wenn das Gerät über einen längeren Zeitraum nicht verwendet wird, ziehen Sie den Netzstecker aus der Steckdose, um die Sicherheit zu gewährleisten. Ein längerer Anschluss an die Stromversorgung ohne Nutzung kann Brand oder Stromschlag verursachen.

Die Nichtbeachtung elektrischer Sicherheitsvorschriften kann zu versehentlichem Stromschlag, Schäden am Gerät, Brand sowie zu Verletzungen oder zum Tod führen.

Warnung vor Hitze

Motoren und andere elektrische Komponenten, insbesondere Batterien, erwärmen sich während des Betriebs. Bei intensiver Nutzung können diese Teile überhitzen und dadurch eine potenzielle Gefahr für das Gerät und den Bediener darstellen.

Um Verletzungen zu vermeiden, vermeiden Sie beim Arbeiten in der Nähe von Motoren und anderen elektrischen Komponenten den Kontakt mit diesen Teilen während des Betriebs sowie kurz danach. Selbst bei

ausgeschalteter Stromversorgung kann die Wärme noch mehrere Minuten nach dem Betrieb gespeichert bleiben.

Wenn Sie feststellen, dass bestimmte Teile die zulässige Temperaturgrenze deutlich überschreiten, schalten Sie das Gerät ab, um Verletzungen zu vermeiden. Stellen Sie sicher, dass das Problem nicht durch die Umgebungsbedingungen verursacht wird. Falls dies der Fall ist, stellen Sie das Gerät an einen geeigneteren Ort. Besteht das Problem weiterhin, wenden Sie sich an einen Cubiscan-Techniker.

Umgebung

Der Cubiscan sollte nicht in Umgebungen installiert werden, in denen übermäßige Hitze, Feuchtigkeit oder Staub vorhanden sind.

Temperaturschwankungen oder direkte Sonneneinstrahlung können zu ungenauen Messergebnissen führen und Sensoren beschädigen.

Installieren Sie das Gerät nicht in der Nähe von Ventilatoren, da schwankende Temperaturen Messabweichungen verursachen können.

Installieren Sie den Cubiscan nicht an einem geneigten Standort, da dies die Genauigkeit der Messungen beeinträchtigt und zur Instabilität des Geräts beitragen kann, wodurch Verletzungsgefahr beim Umkippen besteht. Stellen Sie das Gerät auf einer ebenen und stabilen Fläche auf, auf der es leicht nivelliert werden kann.

Bei einigen Installationen müssen mehrere Kabel mit dem Cubiscan verbunden werden. Dadurch kann eine Stolpergefahr entstehen, die Schäden am Gerät und Verletzungen verursachen kann. Installieren Sie das Gerät in einem Bereich mit geringem Personenverkehr, in dem Kabel entlang einer Wand oder an einem anderen unauffälligen Ort verlegt werden können. Wenn Kabel durch einen Verkehrsbereich geführt werden müssen, treffen Sie Maßnahmen zur Vermeidung von Stolpergefahren, beispielsweise durch das Befestigen der Kabel mit Klebeband oder die Verwendung einer Kabelbrücke bzw. anderer Schutzabdeckungen.

Zubehör

Bestimmtes Zubehör, das mit dem Cubiscan verwendet wird, kann Risiken darstellen, die über den Umfang des eigenständigen Geräts hinausgehen. Dazu gehören unter anderem Waagen, tragbare Batterien, Kameraeinheiten, Schrumpfverpackungsgeräte usw. Bitte beachten Sie die zusätzliche Dokumentation der jeweiligen Geräte. Eine Sammlung dieser Dokumentationen für sämtliches mit dem Gerät verkaufte Zubehör finden Sie auf der Cubiscan-Website: <https://cubiscan.com/guides-accessories/>

Cubiscan übernimmt keine Verantwortung für Zubehör von Drittanbietern, das mit dem Gerät verwendet wird. Bevor Zubehör von Drittanbietern eingesetzt wird, wenden Sie sich an einen Cubiscan-Vertriebsmitarbeiter oder Techniker, um sicherzustellen, dass die Verwendung des Zubehörs kein Sicherheitsrisiko darstellt, den Cubiscan nicht beschädigt und nicht zum Erlöschen der Garantie führt.

安全上の注意



以下の項では、CS325v3 の使用時における安全上の注意事項および予防措置について説明します。本装置が当社の指定しない方法で使用された場合、CS325v3 に備えられている安全機能および保護機能が損なわれる可能性があります、保証が無効となる場合があります。

定義

安全に関する定義は、American National Standards Institute（ANSI）の安全標識規格に準拠して作成されており、Cubiscan が正しくかつ安全に操作および保守されることを確実にすることを目的としています



危険

回避しない場合、死亡または重大な傷害に至る差し迫った危険状態を示します。保護カバーが取り外された際に露出する危険も含まれます。



警告

回避しない場合、死亡または重大な傷害に至る可能性のある危険状態を示します。保護カバーが取り外された際に露出する危険も含まれます。



注意

回避しない場合、軽度または中程度の傷害に至る可能性のある危険状態を示します。



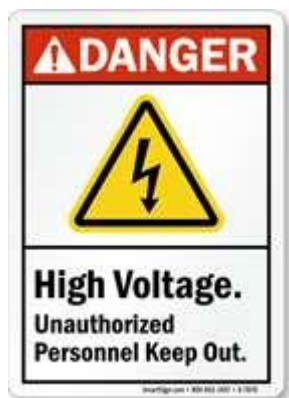
重要:

手順に従わない場合、装置の損傷、またはデータの破損・消失につながる可能性がある情報を示します。

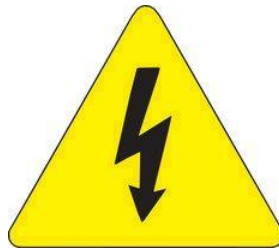
ラベル

Cubiscan には、潜在的な危険をオペレーターに通知するためのラベルが貼付されています。ラベルが装置本体およびその周辺に適切に表示されていることを確認してください。Cubiscan の担当者に事前に相談することなく、いかなる理由でもラベルを取り外したり、変更したりしないでください。

高電圧危険



感電の危険



注意



警告

高精度制御を必要とする電子機器や微弱信号を扱う電子機器の近くで Cubiscan を使用しないでください。電子機器に影響を与え、誤動作を引き起こす可能性があります。

装置内部に異物や液体を入れないでください。これにより短絡や発煙が発生し、火災、感電、または故障の原因となる可能性があります。異物や液体が Cubiscan 内部に入った場合は、直ちに装置の電源を切り、電源プラグをコンセントから抜いてください。

Cubiscan が落下した場合、または強い衝撃を受けた場合は、直ちに電源を切り、電源プラグを抜いてください。そのまま使用を継続すると、火災、感電、負傷、または故障の原因となる可能性があります。

タッチパネルを鋭利な物で操作しないでください。鋭利な物で強く押すと損傷し、故障の原因となる可能性があります。

Cubiscan の上に乗ったり、寄りかかったりしないでください。負傷の原因となる可能性があります。

正確な測定を維持するためには、定期的な清掃および校正試験が必要です。保守作業後には必ず校正試験を実施してください。

装置から異臭、異音、発煙、または過熱が確認された場合は、直ちに電源を切り、電源プラグを抜いてください。その後、Cubiscan テクニカルサポート（801.451.0500）に連絡してください。これを怠ると、火災、感電、または装置の損傷につながる可能性があります。

電氣的危険

通電中の電源に接続されている状態で、電気ケーブル、プラグ、その他の電気部品に触れないでください。Cubiscan の電気部品を取り扱う際は、以下の安全基準に従ってください：

- 電源プラグを抜く前に、必ず装置の電源を切ってください。
- 電源プラグを抜く際は、必ずケーブルではなくプラグ部分を持ってください。
- 電気ケーブルおよび部品を取り扱う際は、常に注意して作業を行ってください。
- ケーブルおよびその他の電気部品を熱源の近くに置かないでください。
- Cubiscan を使用する前に、接地（アース）線が適切に接続され、確実に固定されていることを確認してください。
- ケーブルの上に乗ったり、重い物を載せたりしないでください。
- ケーブルおよびその他の電気部品を改造、曲げたり、または不正に操作したりしないでください。

ケーブル、プラグ、またはその他の電気部品に損傷が確認された場合は、直ちに装置の電源を切り、電源からプラグを抜いてください。その後、Cubiscan の認定技術者に連絡し、交換を行ってください。

長期間装置を使用しない場合は、安全確保のため電源プラグをコンセントから抜いてください。長期間使用しない状態で接続したままにすると、火災や感電の原因となる可能性があります。

電気安全基準に従わない場合、感電、装置の損傷、火災、ならびに負傷または死亡につながる可能性があります。

熱に関する警告

モーターおよびその他の電気部品、特にバッテリーは、使用中に発熱します。装置を長時間または集中的に使用した場合、これらの部品が過熱し、装置および作業者に対して潜在的な危険となる可能性があります。

負傷を防ぐため、モーターおよびその他の電気部品の周辺で作業を行う際は、運転中および停止直後にはこれらの部品に触れないでください。電源を切った後であっても、運転後しばらくの間、部品に熱が残っている場合があります。

特定の部品が許容温度を大きく超えて発熱していることが確認された場合は、負傷を防止するため装置を停止してください。また、その原因が周囲環境によるものでないかを確認してください。環境が原因である場合は、装置をより適切な環境へ移動してください。問題が継続する場合は、Cubiscan の技術者に相談してください。

設置環境

Cubiscan は、過度な高温、多湿、または粉塵の多い環境には設置しないでください。温度の変動や直射日光への曝露は、測定精度の低下やセンサーの損傷を引き起こす可能性があります。温度変動により測定値が不安定になるおそれがあるため、ファンの近くには設置しないでください。

Cubiscan を傾斜のある場所に設置しないでください。測定精度に影響を与えるだけでなく、装置の不安定性を招き、転倒による負傷の原因となる可能性があります。装置は平坦で安定した場所に設置し、容易に水平調整が行えるようにしてください。

設置構成によっては、Cubiscan に複数のケーブルを接続する必要があります。これにより、つまずきによる危険が生じ、装置の損傷や負傷の原因となる可能性があります。人の往来が少ない場所に設置し、ケーブルは壁沿いなど目立たない場所に整理してください。やむを得ず通路にケーブルを配線する場合は、ケーブルを床に固定する、ケーブルカバーやケーブルランプを設置するなど、つまずき防止の対策を講じてください。

付属品

Cubiscan と併用される一部の付属品は、単体装置の範囲外のリスクを伴う可能性があります。これには、スケール、ポータブルバッテリー、カメラユニット、シュリンク包装機などが含まれますが、これらに限定されるものではありません。各機器の詳細については、個別の取扱説明書を参照してください。本装置とともに提供される各付属品に関する資料は、

Cubiscan のウェブサイト (<https://cubiscan.com/guides-accessories/>) に掲載されています。

Cubiscan は、本装置と併用される第三者製付属品について一切の責任を負いません。第三者製付属品を使用する前に、それらの使用が安全上のリスクを生じさせないこと、Cubiscan に損傷を与えないこと、また保証が無効とならないことを確認するため、Cubiscan の営業担当者または技術者に相談してください。

2. SETUP

This chapter provides instructions for assembling and setting up the Cubiscan 325v3. Perform the steps to set up the Cubiscan 325v3 in the following order:

- ✓ Unpacking
- ✓ Placement
- ✓ Assembly
 - ✓ Removing the shipping material
 - ✓ Placing the gate
 - ✓ Placing the platform
 - ✓ Attaching the touchscreen
 - ✓ Loosening the gate stop
- ✓ Connecting power
- ✓ Turning the Cubiscan 325v3
- ✓ Connecting to a computer or network (optional)
- ✓ Installing the Qbit software (optional)

- ✓ Barcode scanner mount (optional)

Unpacking



The Cubiscan 325v3 is shipped in a crate with all components. The glass platform is packed in a separate cardboard box inside the crate.

Remove the glass platform from the box and place it in a safe location. The platform is in a protected cardboard box inside the top of the crate.

Remove the box of accessories packed on the side of the crate.



Figure 2 - Unboxing

Examine the container and the Cubiscan 325v3 carefully for any damage. If, after unpacking, you discover any damage to the Cubiscan 325v3, contact the carrier immediately.

Remove the wooden supports holding the Cubiscan 325v3 in place.

Refer to the list below to identify the components:

- AC power cord
- Calibration Cube, 5" x 3" x 2"
- Ethernet cable
- Hardware (Phillips screws, load cell balls, T-handle pins, glass platform ball sockets)
- Touchscreen
- Trendnet Ethernet adapter

If any of the components or accessories are missing or defective, contact Cubiscan or your system integrator.

Lift the Cubiscan 325v3 out of the shipping crate. It is best to have two people to do this because the Cubiscan 325v3 weighs about 173 lbs (78.5 kg) and may be awkward to handle.

Placement



The Cubiscan 325v3 is designed to be operated in an indoor warehouse environment; however, for proper operation the following conditions should be met if possible.

- Do not subject the Cubiscan 325v3 to extremes in temperature or humidity. Locate the Cubiscan 325v3 as far from open freight doors as possible. Heaters or air conditioners should not blow directly on the Cubiscan 325v3.
- Avoid placing the Cubiscan 325v3 in direct sunlight, as it may affect measurement readings.
- Protect the Cubiscan 325v3 from static electricity, especially the touchscreen.
- Place the Cubiscan 325v3 on a flat, sturdy surface as free from vibration as possible. Excess vibration can reduce the accuracy of the Cubiscan 325v3 scale.
- The Cubiscan 325v3's platform is free-floating—it is resting on four springs (load cells). Maintain a minimum of one-inch clearance at the back and sides of the Cubiscan 325v3. Do not rest objects against or set objects on the Cubiscan 325v3 when not in use.
- If a computer is used, place it as close to the Cubiscan 325v3 as possible. The operator needs to use the keyboard or mouse on the computer while cubing and weighing packages using the Cubiscan 325v3.
- Orient the Cubiscan 325v3 so the touchscreen faces the operator.

Assembling the Cubiscan 325v3



The Cubiscan 325v3 is almost completely assembled when shipped. Place the base assembly of the Cubiscan 325v3 on a stable surface. Make sure that the Cubiscan 325v3 is level. Adjust the leveling feet located in each corner if necessary.

An optional cart, custom-designed for the Cubiscan 325v3, is available from Cubiscan. If you purchased this cart, use the two T-handle pins to secure the Cubiscan to the cart.



Figure 3 - T-Handle

Removing the shipping material

Remove the zip ties holding the gate in place.

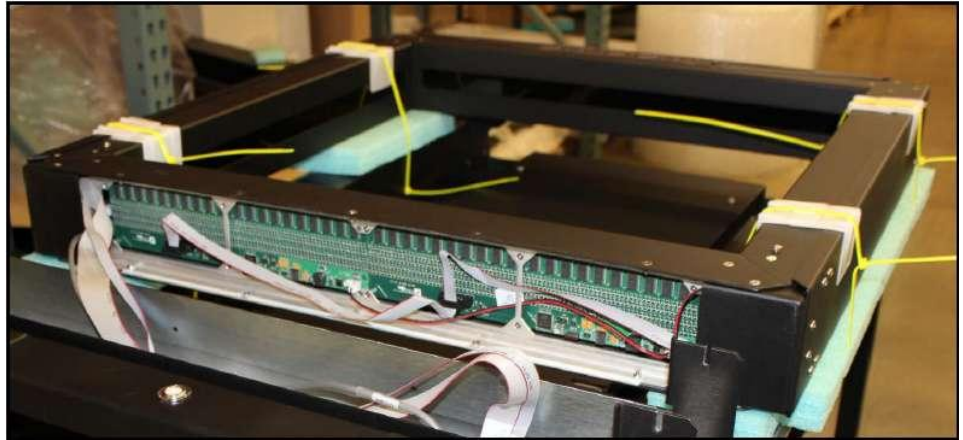


Figure 4 - Gate zip ties

Placing the gate

Use two people to carefully lift the gate up and place it in the gate tray. Avoid pinching any cables. The front of the gate (the side with the handle attached), must face the front of the system. If this side of the gate is not in front, the Cubiscan will not work properly.

Secure the gate to the gate tray using the eight Phillips screws provided. The four slot screws may already be screwed into the gate. If they are, you only need to screw four Phillips screws into place.

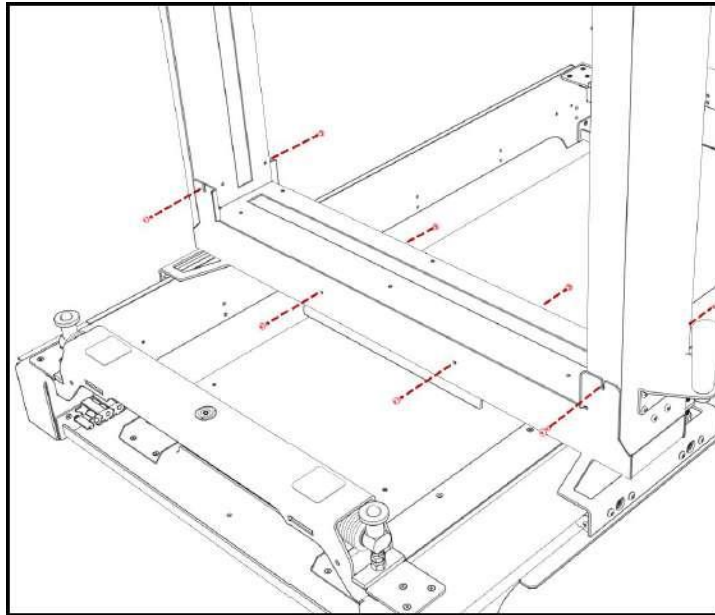


Figure 5 - Gate screws

Placing the glass platform

Place the four load cell balls in the load cell cups.



Figure 6 - Load cell

2. SETUP

Remove the glass cubing and weighing platform from the cardboard box that was in the shipping crate. You will need to screw the four ball sockets into place. Locate the ball sockets and 16 screws among the hardware provided. Screw the ball sockets in place as shown below.

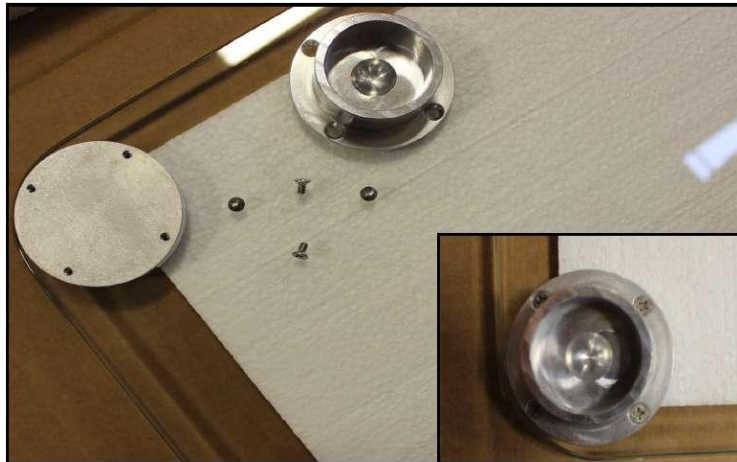


Figure 7 - Glass platform ball socket

Carefully place the glass platform on the load cells, as shown below. It is best to use two people to move the glass. Avoid placing excessive force or stress on the load cells

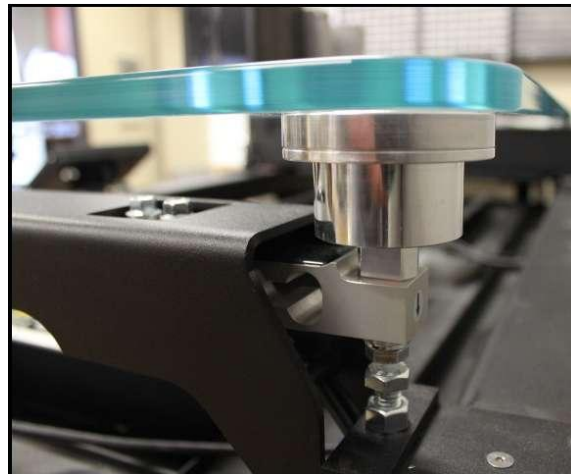


Figure 8 - Glass platform

Attaching the touchscreen

Remove the two wing nuts from the back of the touchscreen.



Figure 9 - Touchscreen wingnuts

Attach the touchscreen to the mount on the front of the Cubiscan. Secure the touchscreen using the two wing nuts.



Figure 10 - Touchscreen attached

Loosen the gate stop

Loosen the gate stop by turning it counter-clockwise. If you ever want to lock the gate in place, simply turn the gate stop clockwise until the gate no longer moves.



Figure 11 - Gate stop

Connecting power



Locate the AC power cord (supplied) and connect it to the power connection on the right side of the controller box as shown below.



Figure 12 - Connection power

Route the AC power cord so it cannot be crushed, bent, or pulled loose.

Connect the other end of the AC power cord to a standard power outlet.

Use the power switch on the right side of the controller box to turn the Cubiscan 325v3 on and off.



NOTE

The Cubiscan 325v3 should be powered on before running the Qbit program to cube and weigh packages.

Turning on the Cubiscan 325v3



Specific procedures must be followed each time you turn on the Cubiscan 325v3, as follows:

Make sure there are no packages or other objects on the Cubiscan 325v3 platform.

Make sure the gate is in the home position (right-hand side).

Turn on the Cubiscan 325v3 with the power switch located on the right side of the controller box.

Zero the Cubiscan 325v3. For instructions, see Zeroing the Cubiscan.

The Cubiscan 325v3 performs self-calibration and diagnostic procedures that take about 5 seconds. Do not touch the Cubiscan 325v3 platform during these 5 seconds.

Computer/Network connection



To connect the Cubiscan 325v3 to a computer, do the following.

Place the computer close to the Cubiscan 325v3. For information on environmental considerations, see Placement.

Remove the center cover by removing the two thumb screws located on the right-hand side of the cover. Slide the cover off to the left so that you can access the ports on the left side of the controller

Locate the controller box. The controller box can be found beneath the measuring gate's home position (the right-hand side).

Choose from one of the following operating methods:

- Connect the Cubiscan 325v3 to a host system via a standard 10/100Base-T Ethernet TCP/IP port. This is the recommended method and all parts needed to connect the Cubiscan 325v3 to a computer via an Ethernet connection have been supplied by Cubiscan. You may need to load the driver. To load the driver onto the computer.

- You can use Qbit software or the touchscreen options to configure the Cubiscan 325v3 for TCP/IP communication. Contact Cubiscan for information on available software or refer to the Communications Protocol.
- Connect the Cubiscan 325v3 to a PC using a USB cable (not provided) through the USB port on the controller box.
- Connect the Cubiscan 325v3 to a PC through the RS-232-C serial port on the controller box. Use the Qbit software on the computer to run the Cubiscan 325v3.
- Operate the Cubiscan 325v3 without a computer using the touchscreen.

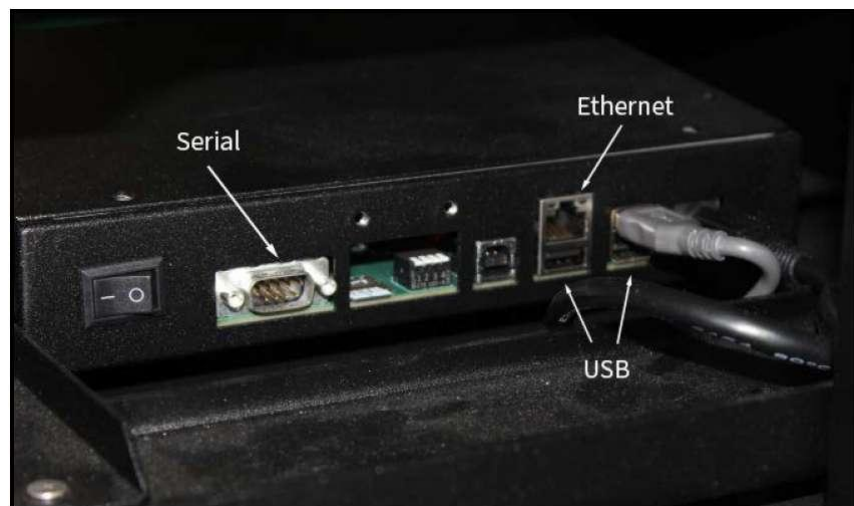


Figure 13 - Ethernet, serial, and USB connectors

Connecting to a computer via Ethernet

This section describes how to use Ethernet to connect a computer to the Cubiscan 325v3 (recommended method).

Use Cubiscan® Qbit software (refer to the *Qbit User Guide*) or the touchscreen options to configure the Cubiscan 325v3 for TCP/IP communication. Contact Cubiscan if you need additional assistance.

If you are using the Ethernet connection option:

1. Install the driver that is needed.
2. Connect the Ethernet cable (supplied) to the Cubiscan 325v3's Ethernet port.

Access Ethernet network settings

Once the driver is installed you need to set the static IP address and the Subnet mask of the adapter. You can access these network settings by completing the following steps:

1. Under **Control Panel > Network and Sharing Center** locate and click on the correct connection to bring up the status window.



Figure 14 - Status window

2. Select Properties. Double click **Internet Protocol Version 4** to bring up the general properties window.

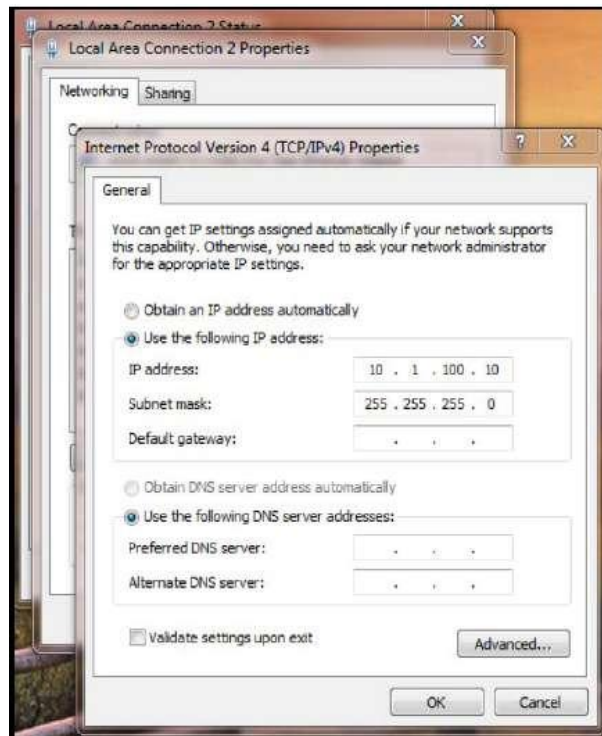


Figure 15 - General properties window

3. From this screen you can set the IP address and Subnet mask. The recommended IP address setting is **10.1.100.10**. The recommended Subnet mask setting is **255.255.255.0**.
4. Click **OK** to exit when you are finished. Close any other remaining windows.

Once you have completed this setup process, the computer should communicate with the Cubiscan 325v3.

Connecting to a computer via USB

This section describes how to use a USB connection to connect a computer to the Cubiscan 325v3.

If you are using the USB cable (not supplied) connection:

1. Connect the USB cable to the Cubiscan 325v3's USB port located on the controller box, as shown in Figure 13.
2. Make sure that the proper driver has been installed on the PC, see "Installing and configuring the USB driver" on page 21.
3. Connect the USB cable to the PC.

Installing and configuring the USB driver

The USB-B communication uses the HID interface and does not require a driver. When it is turned on, the Cubiscan 325v3 will recognize the cable connection and, if configured correctly, will respond to a connection request from the host. The device will appear in the device manager list as an HID compliant device.



Figure 16 - HID compliant device

Computer connection via serial (RS-232-C)

If you are using the RS-232 serial communications cable (not supplied), complete the following steps:

1. Route the RS-232 serial communications cable so it cannot be crushed, bent, or pulled loose. Make sure that the cable does not interfere with the scale.
2. Connect the serial cable to the Cubiscan 325v3's serial port, as shown in Figure 13.
3. Locate a free RS-232-C serial port on your computer. Refer to your computer documentation, if necessary, to identify the ports. Connect the serial cable directly to the serial port.
4. To secure the RS-232 serial cable, tighten both screws at each end of the cable. It is important that the cable be secure.

Installing Qbit (optional)



A flash drive is available containing the Qbit software program, which can be used to operate the Cubiscan 325v3.

The Qbit User Guide, located on the drive, provides instructions for installing and using Qbit. You can also download the user guide from the Cubiscan website at www.cubiscan.com.

Barcode scanner mount (optional)



For your convenience, the barcode mounting assembly for the Cubiscan 325v3 is designed to mount on either the left or right side of the cart simply by flipping the mounting unit over to the correct orientation.

To do this ensure that the mount is situated so that the top surface slopes downward toward the front of the cart. This surface is where the barcode reader will be mounted and should be situated in a way that makes it easily accessible.

Use the 1/4" Lock split washer and 1/4" PHP screws to secure the mounting bracket to the cart.

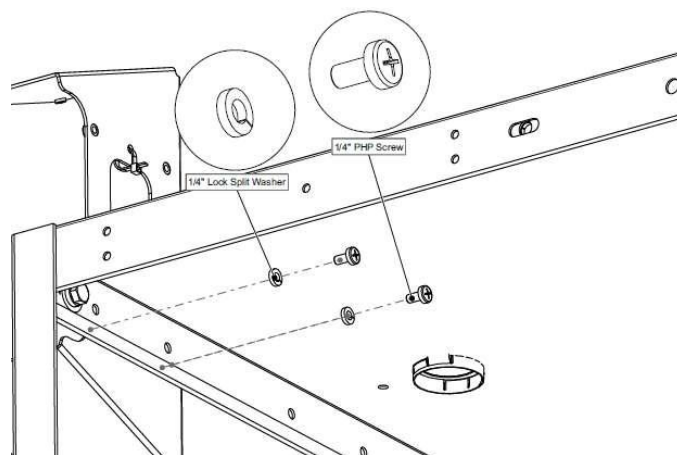


Figure 17 - Left hand mounting

When mounting on the right-hand side of the cart, you may remove the side panel to have better access to the bracket mounting holes.

2. SETUP

As before, ensure that the mounting bracket is situated so the top mounting surface slopes downward toward the front of the cart.

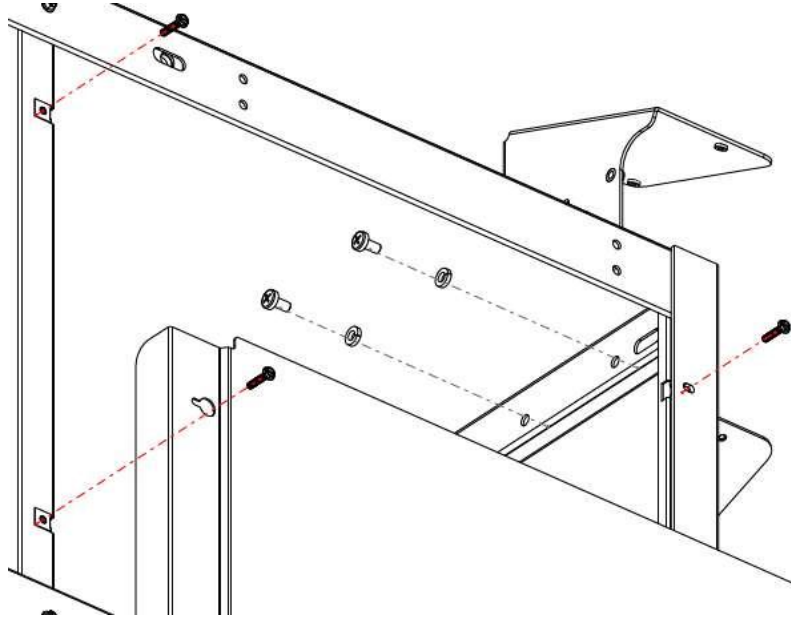


Figure 18 - Right-hand mounting

Replace the side panel to its original position.

Once the mount is securely in place, use the three 1 ½" PHP screws to secure the barcode reader base to the mount.

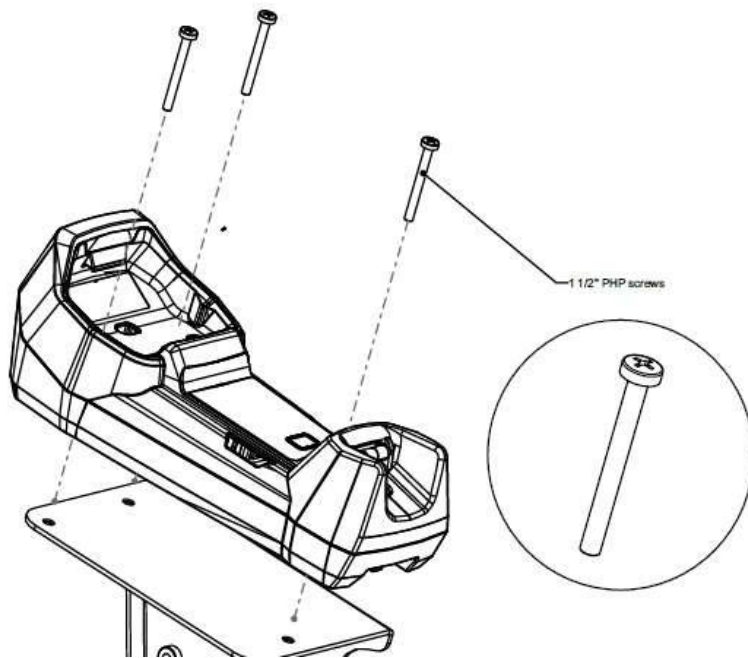


Figure 19 - Mounting barcode base

The screws will pass through the mounting holes of the barcode reader stand and fasten to the corresponding holes in the mount.

Depending on the orientation, the cord will wrap on the left or right side of the mount. Use cable ties to secure the cord to the mount.

Run the cord through the gap in the mount to the controller unit.

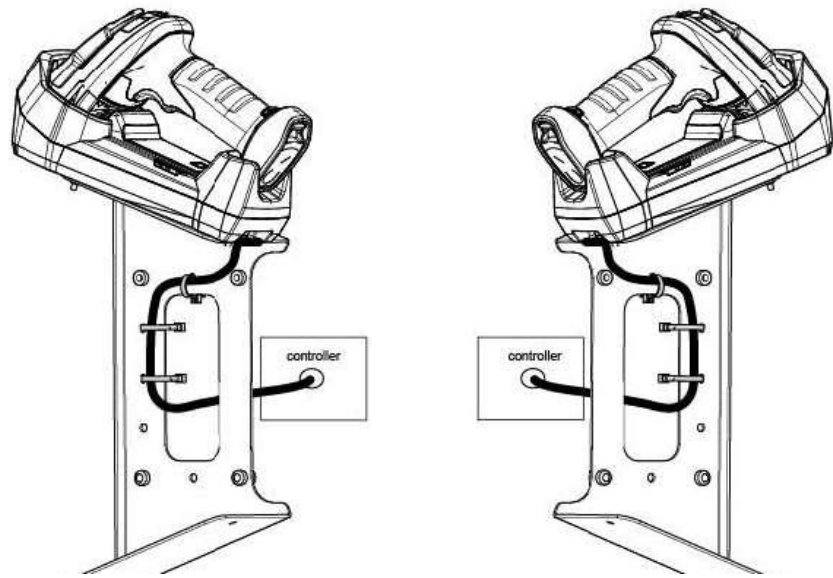


Figure 20 - Cord winding

Setup checklist



Before using the Cubiscan 325v3 for the first time, verify the following:

- ✓ Have the Cubiscan 325v3 and the computer (if applicable) been placed in the proper operating environment?
- ✓ Has the Cubiscan 325v3 been fully assembled?
- ✓ Has all shipping material been removed?
- ✓ Is the Cubiscan 325v3's glass platform free moving? The Cubiscan 325v3 should not be pushed up against a wall and no object, cable, etc., should be resting on it or against it.
- ✓ Has the Ethernet, RS-232, or USB cable been attached to the Cubiscan 325v3 and the computer (if applicable)?
- ✓ Has the AC power cord been connected correctly?

- ✓ If you are using Qbit to operate the Cubiscan 325v3, has the software been copied onto your computer's hard-disk drive? (Refer to the Qbit User Guide for information.)
- ✓ Does the Cubiscan 325v3 require recalibration? The Cubiscan 325v3 was calibrated at the factory but may require recalibration due to handling during shipping.

If you are using Qbit software, check the status of the Cubiscan 325v3 before operating it. Refer to the Qbit User Guide for information on checking the Cubiscan 325v3's status and events history.

3. OPERATION

This chapter provides instructions for operating the Cubiscan 325v3.

Before you begin



Follow the procedures below to turn on the Cubiscan 325v3. The Cubiscan 325v3 should be turned on before you start Qbit (if applicable).

- Make sure there are no objects on the Cubiscan 325v3's platform.
- Make sure that the gate has enough room to move freely.
- Turn on the Cubiscan 325v3. The Cubiscan 325v3 performs self-diagnostic procedures that take about 5 seconds. Do not touch the Cubiscan 325v3 platform during these 5 seconds.
- The Cubiscan 325v3 must be zeroed each time it is turned on.

NOTE



Do not lean on or touch the Cubiscan 325v3 glass platform or the object while the object is being measured and weighed. Any kind of contact with the platform during the measurement process can alter the weight or sensor reading.

CAUTION 	<i>Do not lean on or touch the Cubiscan 325v3 glass platform or the object while the object is being measured and weighed. Any kind of contact with the platform during the measurement process can alter the weight or sensor reading.</i>
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Cubiscan 325v3 touchscreen

You can use the Cubiscan 325v3 touchscreen (below) to configure and control the Cubiscan 325v3 as well as display measurement results.

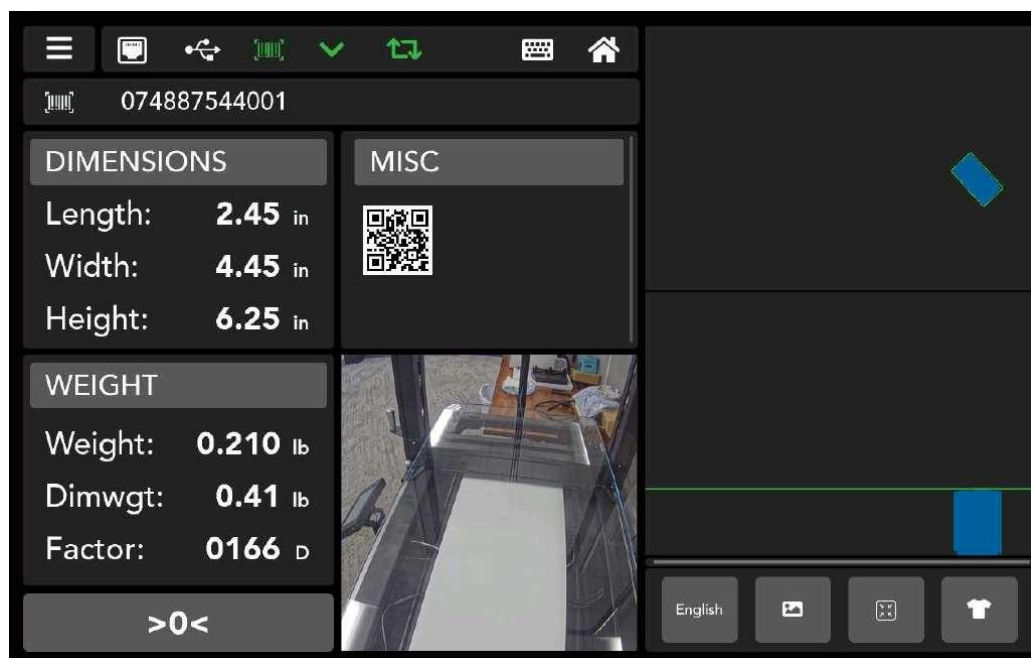


Figure 21 - Cubiscan 325v2 homescreen

Touchscreen care

Never use a sharp or hard-tipped object to tap on the touchscreen. You can tap lightly on the screen with your fingertip, or you can use the eraser end of a pencil or a stylus with a soft point. Use a light touch, just hard enough for the screen to respond.

To clean the touchscreen, moisten a soft cloth with water, then gently wipe the screen clean with the cloth. Do not spray liquid directly on the touch screen.

Cubing and weighing



The Cubiscan 325v3 can be used to measure irregularly-shaped, opaque objects as small as 0.1 inch (refer to “Specifications” on page 2 for specifications and size limitations).

Objects are measured by the infrared light beams on the Cubiscan 325v3's gate by moving the gate over the object on the platform.

Refer to the appropriate following section for instructions on cubing and weighing.

NOTE



The following section outlines safety and precautions when using the 325v3. If the equipment is used in a manner not specified by us, the safety and protections provided by the 325v3 may be impaired and the warranty voided.

Cubing and weighing using Qbit

Refer to the Qbit User Guide for instructions on measuring, weighing, and other functions in Qbit. The Qbit User Guide is provided on the flash drive, or you can download it from the Cubiscan website at www.cubiscan.com.

Cubing and weighing using Web Services

Refer to the API Documentation Guide for instructions on interfacing to the Cubiscan via Web Services.

Cubing and weighing using other interfaces

Refer to the Communications Protocol for information to set up cubing and weighing through other interfaces.

Cubing and weighing using the touchscreen

All controls and displays for the Cubiscan 325v3 are shown on the touch screen at the front of the base. If a computer is not connected, you can use the touchscreen to measure and weigh objects.

Home screen



Measurement and weight results will only be displayed when the Cubiscan 325v3 touchscreen is displaying the home screen. The home screen is divided into three panels.

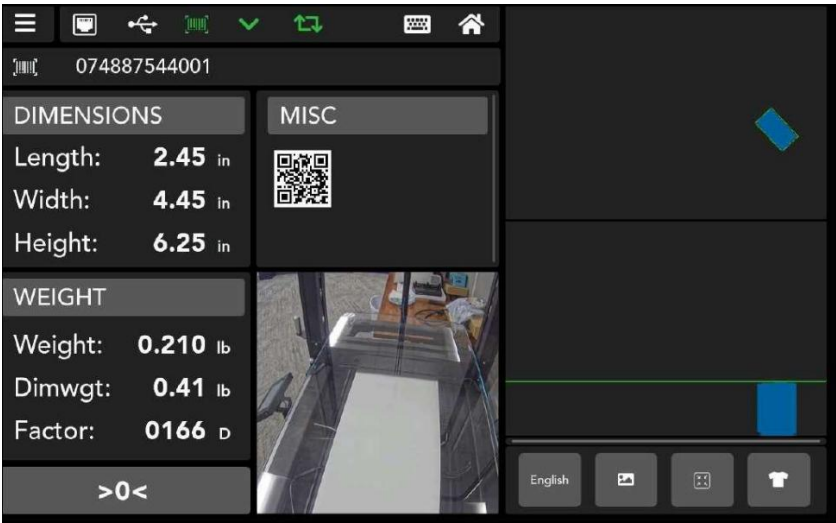


Figure 22 - Home screen

NOTE 

The home screen may have two panels, instead of three depending on toggles enabled. This is the case when no camera or **Misc** is enabled. In this case, the home screen adapts to provide the best viewing experience.



Figure 23 - Adaptive home screen

Top panel

The top panel contains the menu icon and indicators. The indicators will appear when their associated feature is toggled on.

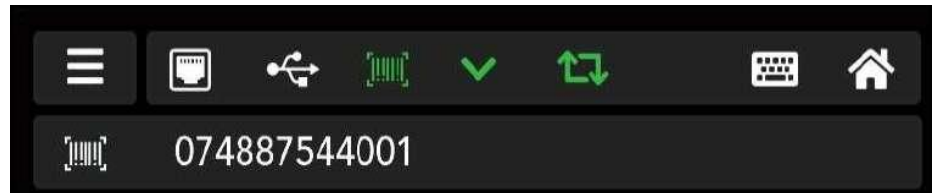


Figure 24 - Top panel

MENU		Tap the menu icon in the upper left corner of the machine to open the menu bar. From here you can select from the various options (Version, Settings, Measure settings, Connection, Gate, Scale, Touchscreen and Log).
ETHERNET		Indicator displays when an ethernet cable is plugged into the controller of the Cubiscan.
USB		Indicator displays when an ethernet cable is plugged into the controller of the Cubiscan.
BARCODE SCANNER		Indicator displays when barcode scanner is connected to the controller of the Cubiscan. If MISC fields, pack type, or quantity is enabled the USER Data window will open.
COMRESSOR PROMPT		When Apparel Mode is enabled this indicator displays to prompt users to place the compressor on the item being measured.

REMEASURE PROMPT		When Apparel Mode is enabled, this indicator displays to prompt users to remove the compressor and measure again.
KEYBOARD		Tap the icon to access the touchscreen keyboard.
HOME		Tap icon while on another screen to return to the home screen.
BARCODE		Displays the barcode number after the barcode is scanned. Barcodes may also be entered manually.

Left panel

The left panel displays the measurement results. The dimension length, width, and height are displayed above and the weight, dim weight, and factor are displayed below.

DIMENSIONS	
Length:	2.45 in
Width:	4.45 in
Height:	6.25 in
WEIGHT	
Weight:	0.210 lb
Dimwgt:	0.41 lb
Factor:	0166 D
>0<	

Figure 25 - Left panel

- LENGTH** These display the measured dimensions in inches (in), centimeters (cm),
WIDTH or millimeters (mm) as selected.
HEIGHT
- DIMENSIONS/** Displays the weight of the object.
WEIGHT
- DIM-WGT** This displays the measured dim-weight in pounds (lb) or kilograms (kg)
as selected. Must be selected in measurement settings.
- FACTOR** Displays the factor used to determine the dim-weight. The fact is
typically determined by pre-configured settings or can be set manually
- >0<** When green, this indicates that the scale is zeroed and ready to receive
an object. You may tap **>0<** to zero the scale.

Middle panel

The middle panel consists of two windows. The top window displays the QR code for a measured item when the QR code option is enabled. The bottom window displays the image from the mounted axis camera. This image may be pushed to a server.



Figure 26 - Middle panel

Right panel

The right panel displays the measurement results. Each measurement is divided into an overhead view (XY image) in the upper panel and a side view (Z image) in the lower panel. These images may be posted with the measurement data.

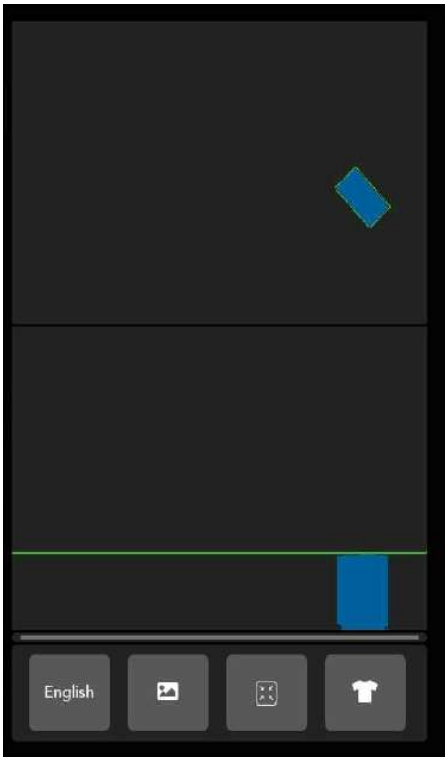


Figure 27 - Right panel

LANGUAGE
MODE



Tapping the language button will toggle between the pre-selected languages. Available languages may be selected from the Settings menu.

CAMERA



Tapping the camera button will cause the Axis camera mounted to the Cubiscan to snap a picture. The image will display in the panel above. This feature must be enabled in Connection.

FILTER
MODE



Tapping the square icon will enable filter mode. Measurement in filter mode will exclude small objects, instead focusing measurement on the largest contiguous object.

APPAREL MODE



Tapping the shirt icon will enable apparel mode. Measurement in apparel mode allows for a compression plate to be placed on the article to ensure height is measured accurately.

Measuring/Weighing items



The measuring gate can measure opaque objects as small as 0.1 inch (2 mm). An image of the object is displayed on the touchscreen as it is measured. Take the following steps to measure and weigh an item using the touchscreen:

1. Verify that the Cubiscan 325v3 scale is at zero. The zero (>0<) indicator should be highlighted.
2. Place the object on the glass platform. The zero (>0<) indicator will go out.

NOTE



Do not lean on or touch the Cubiscan 325v3 platform or the object while an object is being measured. Any kind of contact with the platform during the measurement process can alter the weight or sensor reading.

3. Move the measurement gate slowly using the handle until it has fully crossed the object. Once the gate has paused the measurement will register on the display. If the measurement was

successful the length, width, height, and weight of the object are displayed.

4. Remove the object from the platform. Wait for the zero indicator to light before placing the next object on the platform.
5. If the zero indicator (>0<) does not highlight green, it means that the Cubiscan 325v3 needs to be zeroed. To zero the scale, make sure that the platform is free of all objects, then tap >0<.



Figure 28 - Measuring gate

NOTE



Do not move the gate too quickly across the platform. A gate speed error will display on the touchscreen if you move it too quickly.

A two-dimensional image of the object shows the top-down view of the object. An image of the side view of the object appears below the image of the top-down view. The length, width, height, and weight are displayed on the touchscreen.

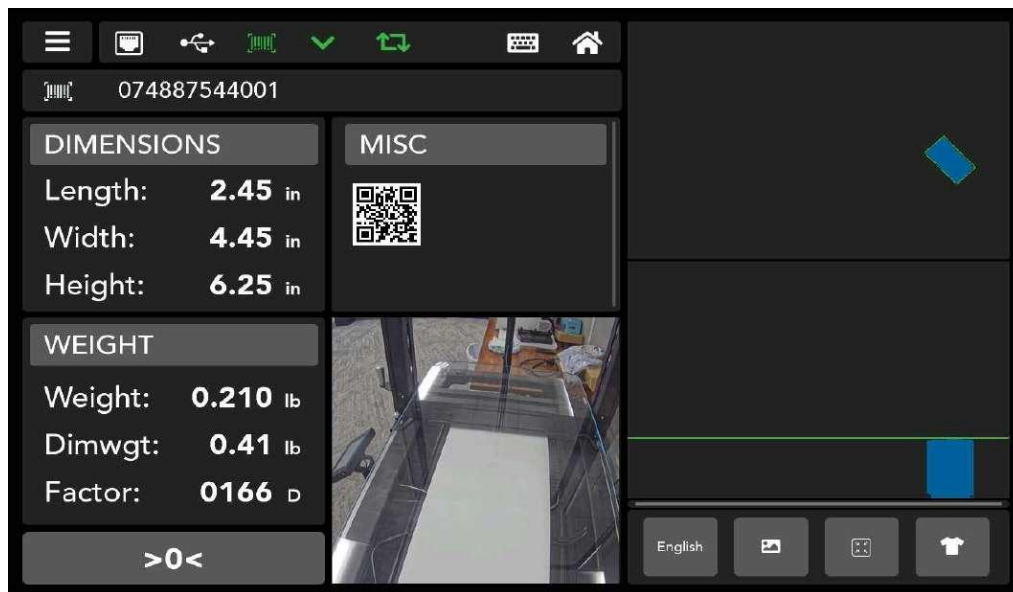


Figure 29 - Measurement display

Depending on settings, to fully complete the measurement other actions must be taken. The green icons at the top of the home screen display indicate what actions need to be taken. These may include:

- Scanning the barcode or multiple barcodes is required. When this is enabled, a green barcode will display at the top of the left-side display panel next to the menu icon. To enable/disable this function.
- User data screen will appear after barcode is scanned. Users may adjust information as needed.
- Waiting for confirmation from the server that data was sent and received. To enable/disable this function.
- Remeasuring without the compression plate in the case of apparel mode. To enable/disable this function.
- Requiring manual acceptance of the data. To enable/disable this function.

Zeroing the Cubiscan 325v3



Tap the >0< button on the touchscreen to “zero” the Cubiscan 325v3. This sets all empty measurements and weight to zero.

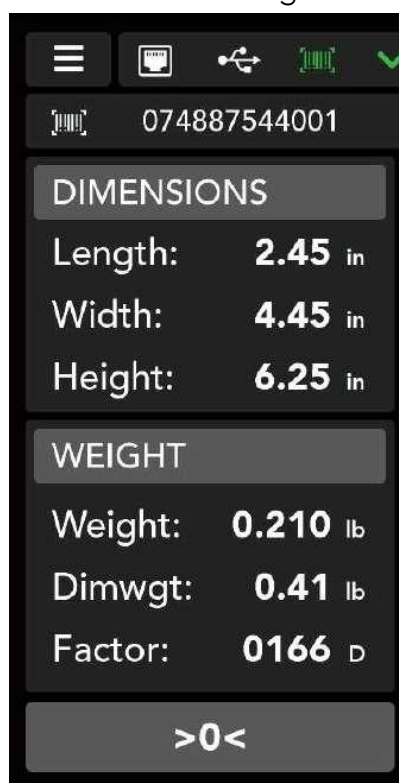


Figure 30 - Zero Cubiscan

The weight when the platform is empty must be set to zero for the Cubiscan 325v3 to operate properly. The Cubiscan 325v3 will attempt to zero automatically. However, you may need to use this option in the following circumstances.

If, during a long measuring session, environmental conditions (temperature and humidity) have changed noticeably.

If you suspect that the last zeroing was in error (something was on the platform).

The weight displayed when nothing is on the platform is negative.

The >0< button will turn green if it has successfully been zeroed.

NOTE



Make certain that the platform is free of all objects before using Zero. If not, the zero reading will not be accurate.

Language



For user convenience, the Cubiscan 325v3 is available with an alternate 2nd language that can be toggled from the home screen. To make the toggle appear on the home screen, enable the setting in Measure Settings from the Menu.

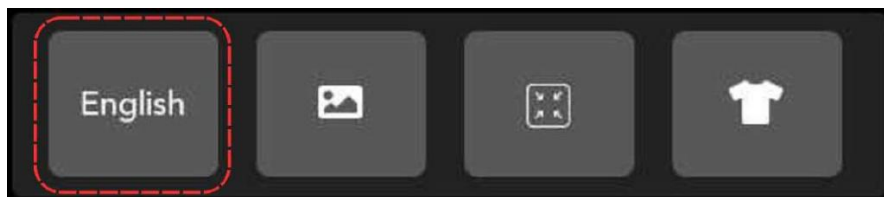


Figure 31 – Language

To toggle the secondary language, tap the language button in the right panel. The language of choice will be displayed in the home screen and menus.

Camera



The Cubiscan 325v3 allows for the attachment of an Axis camera. The camera is mounted to the cart and overlooks the platform of the Cubiscan.

Images may be taken of product during the dimensioning process and transmitted along with the rest of the data.



Figure 32 – Axis camera

To use the camera for images, enable the camera in Measure settings.



Figure 33 - Camera icon

When enabled, a button will also appear on the home screen. Users may tap the camera button to capture an image of the platform, and any products may be on it. The image will appear in the upper right-hand panel. Images can be transmitted with the dimensioning data.



Figure 34 - Camera image

Measuring with filter mode



In filter mode the Cubiscan 325v3 will detect the object with the most contiguous pixels (indicating the largest object). All other objects or artifacts will still show in the view panel highlighted in red, but none will be included in the final calculation of the largest object.

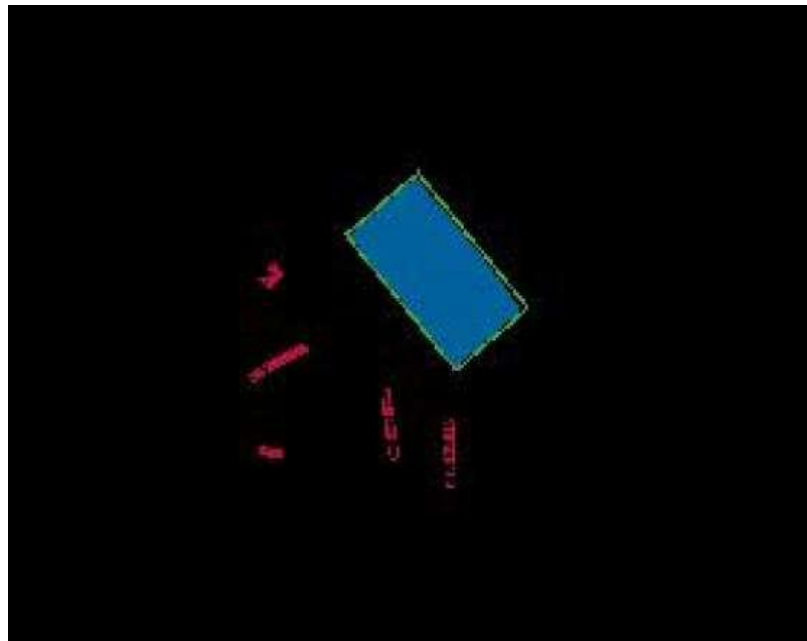


Figure 35 - Filter mode

To make the filter mode function accessible on the home screen, select enable from the dropdown menu in Measure Settings.

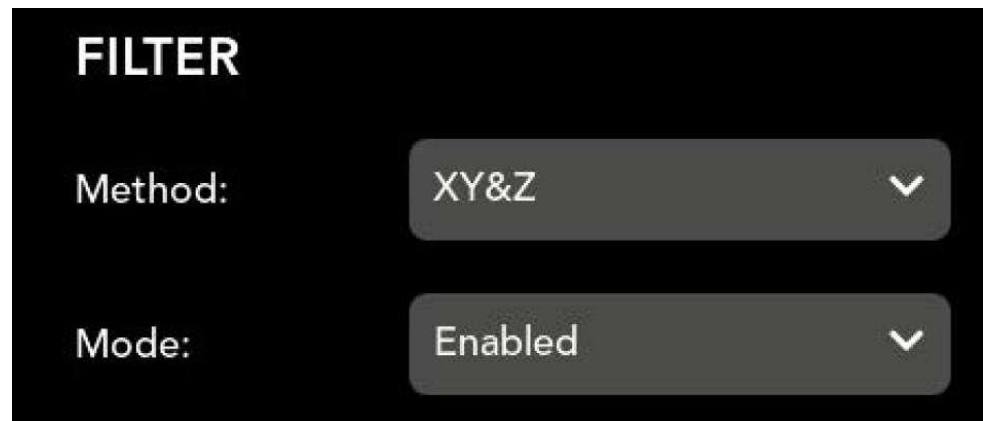


Figure 36 – Filter

To use filter mode during measurement, tap the icon in the right-hand panel.



Figure 37 - Filter mode icon

Measuring with apparel mode



The following steps describe how to measure apparel in a way that allows you to measure average length, width, and height with filtering. This mode is a more efficient way to obtain measurements for accurate packaging of flexible items.

To make the apparel mode function accessible on the home screen, select enable from the dropdown in the Apparel Mod section of Measure Settings.

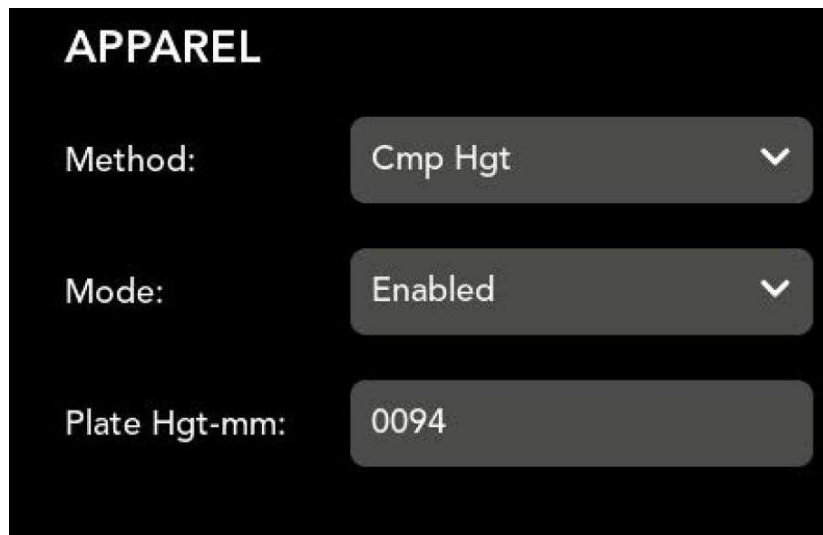


Figure 38 - Apparel mode

When measuring, the length and width measurement will be taken separately from the height measurement. Complete the following steps when measuring in apparel mode:

1. To use apparel mode during measurement, tap the shirt icon in the right-side panel of the home screen.

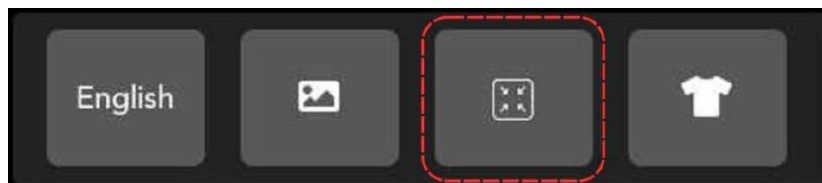


Figure 39 - Apparel mode icon

2. Begin by clearing all objects from the platform and ensuring the zero icon (>0<) is highlighted.
3. Place the apparel on the platform, followed by the compression plate.
4. Pass the gate over the apparel to complete the height measurement with the compression plate. Notice in the height display panel, a red line separates the boundary between the compression plate and the apparel. This allows for a more accurate

measurement of height during the second pass. No measurements are displayed during first pass.

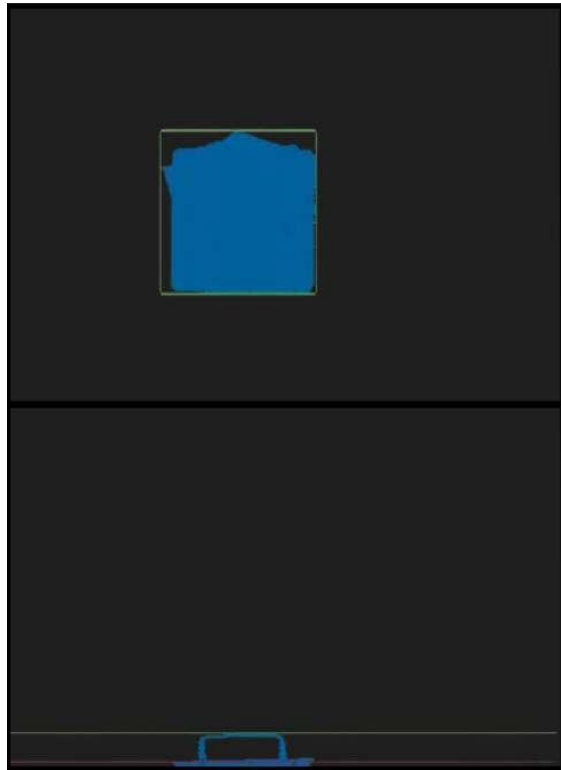


Figure 40 - Apparel mode: first pass

5. Remove the compression plate and pass the gate over the apparel again. Measurements will display in the left-hand panel with their respective adjustments. Notice in the height display, the red line is present, indicating the compressed height, along with a green line, indicating the non-compressed height.

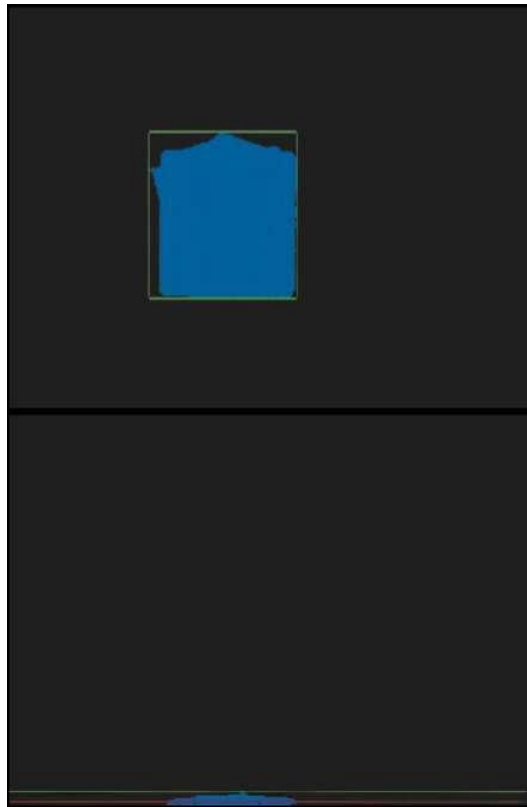


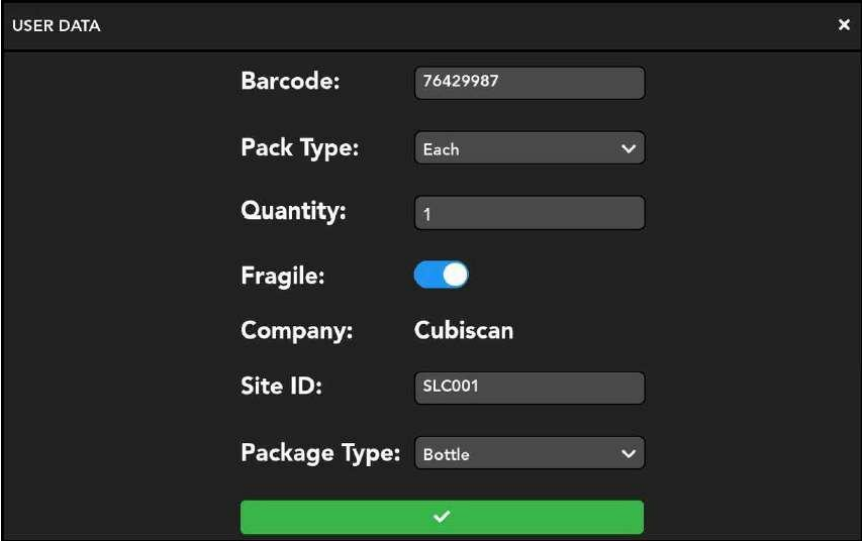
Figure 41 - Apparel mode: second pass

6. Finish the measurement by performing any additional actions such as scanning the barcode.

User data



The user data screen will appear when a barcode is scanned or when the green barcode panel is tapped.



The screenshot shows a dark-themed window titled "USER DATA" with a close button (X) in the top right corner. The form contains the following fields:

- Barcode:** A text input field containing the value "76429987".
- Pack Type:** A dropdown menu with "Each" selected and a downward arrow.
- Quantity:** A text input field containing the value "1".
- Fragile:** A toggle switch that is currently turned on (blue).
- Company:** A text input field containing the value "Cubiscan".
- Site ID:** A text input field containing the value "SLC001".
- Package Type:** A dropdown menu with "Bottle" selected and a downward arrow.

At the bottom of the form is a green button with a white checkmark icon.

Figure 42 - User data

BARCODE Displays the barcode number after the barcode is scanned. The barcode may also be entered manually.

PACK TYPE From the dropdown, the pack type may be selected. The pack type refers to the way items are grouped when determining quantity.

QUANTITY Enter the quantity of items in the field.

FRAGILE Toggle to enable or disable the tag for fragile item. Toggles may be set in the `misconfig.txt` within the root directory on the unit.

COMPANY Displays the company name. Text may be set in the `misconfig.txt` within the root directory on the unit.

SITE ID Displays the alphanumeric ID for the site in which the unit is located. Text boxes like Site ID may be set in the `misconfig.txt` within the root directory on the unit.

PACKAGE TYPE Displays the type of packaging used for the item. Drop downs can be set in the misconfig.txt file within the root directory on the unit.

After the user data is properly entered, tap the green checkmark button to confirm data. The data will be handled according to pre-configured user settings. For more information on pushing data to a server.

4. CONFIGURATION

This chapter provides instructions for adjusting the Cubiscan 325v3 settings.

touchscreen to set up the length, width, and height measurements, as well as special features that the Cubiscan 325v3 offers. This chapter also provides instructions for configuring the units, dimensional weight factor, comport, and other settings. For information on calibrating the Cubiscan 325v3 gate, touchscreen, or scale.

If you have a computer connected to the Cubiscan 325v3 with Qbit.

installed, you can use Qbit to set up the measurement and dimensional weight units, select the Cubiscan 325v3 communications port, perform calibration, and other functions. Refer to the *Qbit User Guide* for instructions on measuring and other functions in Qbit. *The Qbit User Guide* is provided on the flash drive with the Qbit application, or you can download it from the Cubiscan [website at www.cubiscan.com](http://www.cubiscan.com).

General Settings



The Cubiscan 325v3 may be customized to suit your specific dimensioning needs. To access the general settings, complete the following steps:

1. Tap the menu icon in the upper left corner of the home screen.
2. From the menu side panel, select **SETTINGS**.

SETTINGS

GENERAL

Theme: Dark

Language: English

Language2: Español

Image File: XY&Z BMP

Machine ID: 000001

Password:

Confirm PW:

No password set.

Admin:

Confirm Admin:

No admin set.

Figure 43 - General settings

THEME Users may select from either a light theme or a dark theme.

LANGUAGE Select your desired language form the following options: English, French, Spanish, Portuguese, Japanese, and Chinese.

LANGUAGE 2 A secondary language can be set which can be toggled from the right-hand panel of the home screen.

IMAGE FILE Images posted from the machine may be set to XY BMP, XY&Z BMP, or disabled.

MACHINE ID Optional Machine ID may be set for the Cubiscan. This may be useful in a facility where data is tracked from more than one Cubiscan.

PASSWORD Optional password protection for the touchscreen is available. Enter desired password into the text field and reenter it in the field next to **Confirm PW**.

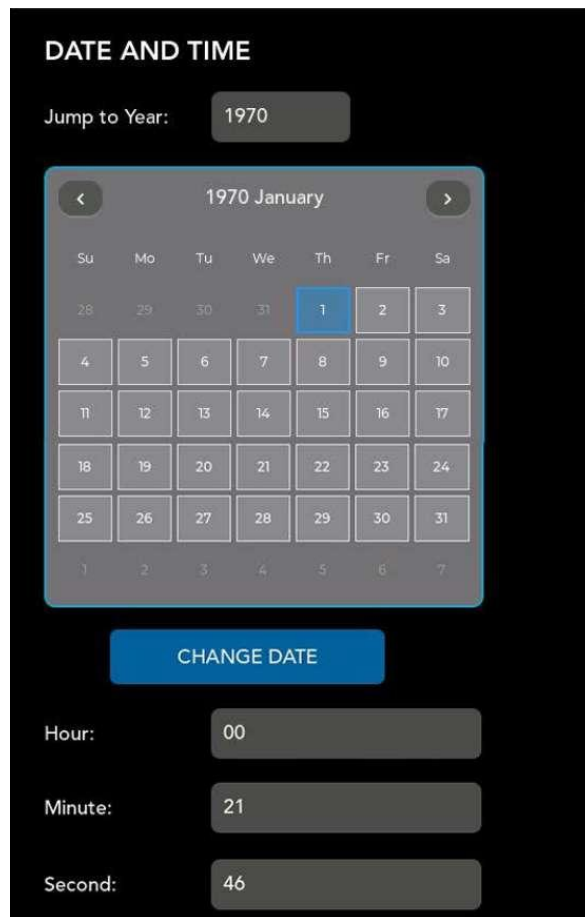
When the password is set you will also be prompted to enter the password and username to access the web interface administration page. The username will be **cubiscan** and the password will be whatever is entered in the settings.

ADMIN Add an administrator password by entering it in the field next to Admin. Reenter the password in the field next to Confirm Admin.

Date and Time

To set the date and time complete the following steps:

1. Tap the menu icon in the upper left corner of the home screen.
2. From the menu side panel, select **SETTINGS**.
3. Scroll down to the **DATE AND TIME**.



DATE AND TIME

Jump to Year: 1970

1970 January

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

CHANGE DATE

Hour: 00

Minute: 21

Second: 46

Figure 44 - Date and Time

DATE SETTINGS Set the date for the Cubiscan using the calendar input. Tap **CHANGE DATE** after making changes to the date to ensure changes are saved.



Figure 45 - Date settings

TIME SETTINGS Set the time by entering values into the text fields next to Hour, Minute, and Second.

A screenshot of a time settings interface. It consists of three vertically stacked text input fields. The first field is labeled 'Hour:' and contains the value '19'. The second field is labeled 'Minute:' and contains the value '16'. The third field is labeled 'Second:' and contains the value '22'.

Figure 46 - Time settings

System Reset

If settings need to be reset back to factory defaults, the Cubiscan 325v3 has a system reset. By initiating system reset, all settings including custom

settings will be reset back to their initial presets. Resetting the system back to defaults will result in loss of all custom settings and should be avoided unless absolutely necessary.



Figure 47 - System reset

To initiate a system reset complete the following steps:

- Tap the menu icon in the upper left corner of the home screen.
- From the menu side panel, select **SETTINGS**.
- Scroll down to **SYSTEM RESET**.
- Tap **RESET TO FACTORY DEFAULTS**.

Measure Settings



The following options can be used to configure your Cubiscan 325v3. Settings exist for configuring measurements and the interface, allowing you to set up a measurement system that meets your needs and preferences.

To access the measure settings, perform the following steps:

- Tap the menu icon in the upper left corner of the home screen.
- From the menu side panel, select **MEASURE SETTINGS**.

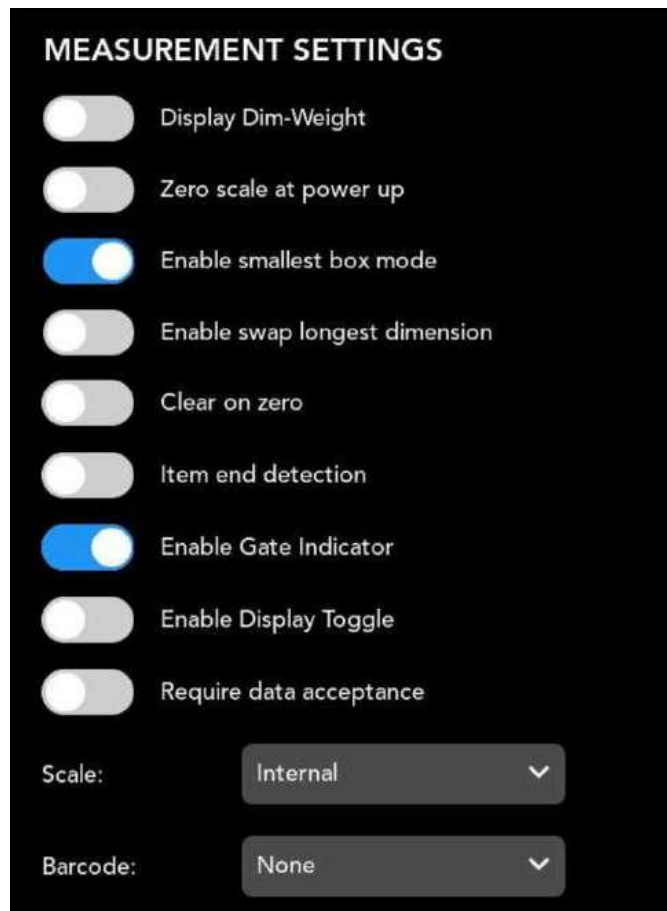


Figure 48 - Measure settings

DISPLAY DIM-WEIGHT Toggle this switch to display the dim weight and factor on the home screen.

ZERO SCALE AT POWER UP Toggle to have the scale zeroed automatically when powered on.

ENABLE SMALLEST BOX MODE Check this box if you want to enable the smallest box mode. This mode boxes items into the smallest box possible, the placement of the item on the platform makes no difference. Turning off the smallest box mode measures items depending on their placement on the platform.

4. CONFIGURATION

ENABLE SWAP LONGEST DIMENSION Check this box if you want to enable the Swap Longest feature. This feature will automatically report the longest dimension as the length.

CLEAR ON ZERO When this box is enabled, the image associated with a measurement will disappear once the item is removed from the measuring platform. When this box is unchecked, the image associated with a measurement will remain on the screen until a measurement of another item is taken.

ITEM END DETECTION Toggle item end detection on or off. This will enable an error message if a measurement is started but no end is detected.

ENABLE GATE INDICATOR Toggle to enable or disable the gate indicator bar on the home screen. The bar shows the position and movement of the gate.

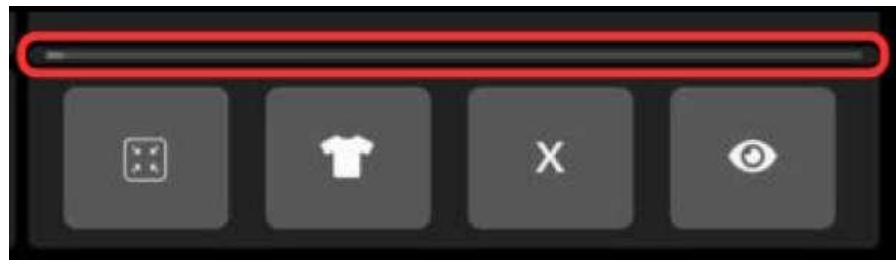


Figure 49 - Gate indicator

ENABLE DISPLAY TOGGLE Toggle to enable or disable the display toggle button in the bottom of the right panel. This button allows the user to toggle between a simplified view of the display or a more detailed view.



Figure 50 - Simplified view

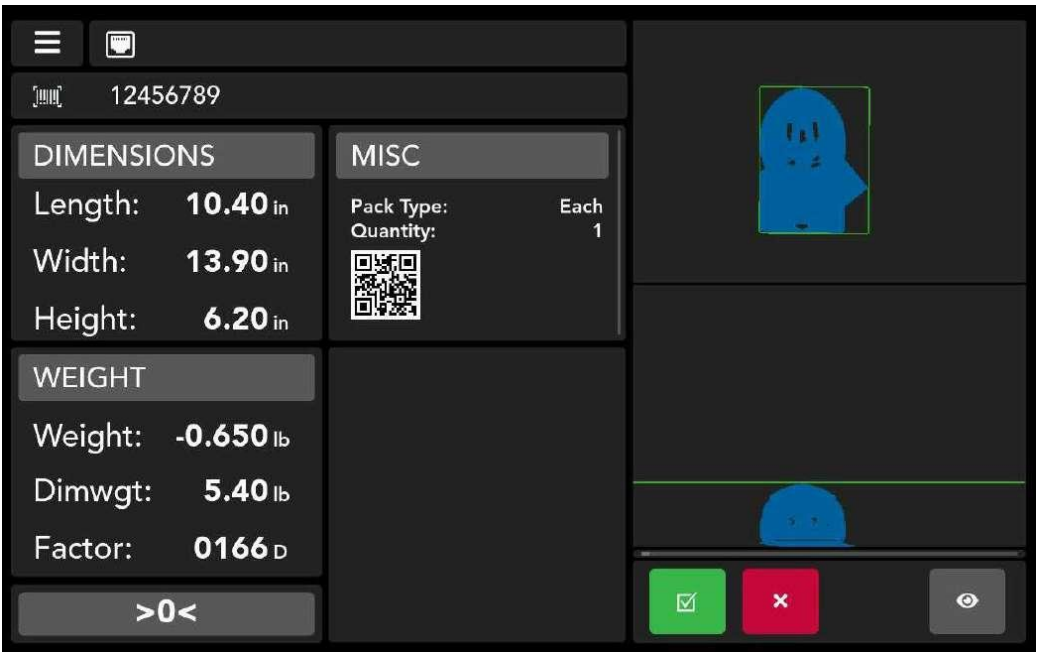


Figure 51 - Detailed view

REQUIRE DATA ACCEPTANCE Toggle to enable data acceptance. With data acceptance enabled, each measurement will require a manual acceptance of data. After each

measurement a box will appear at the bottom of the left-panel requesting confirmation by the operator. Click the check-box icon to accept the measurement data or the X icon to clear the results for remeasurement.

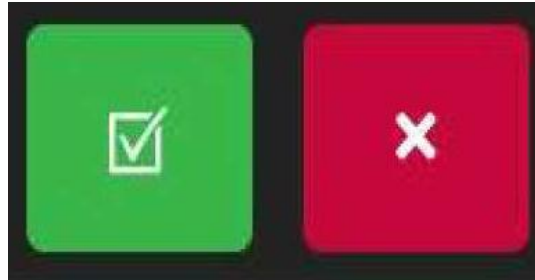


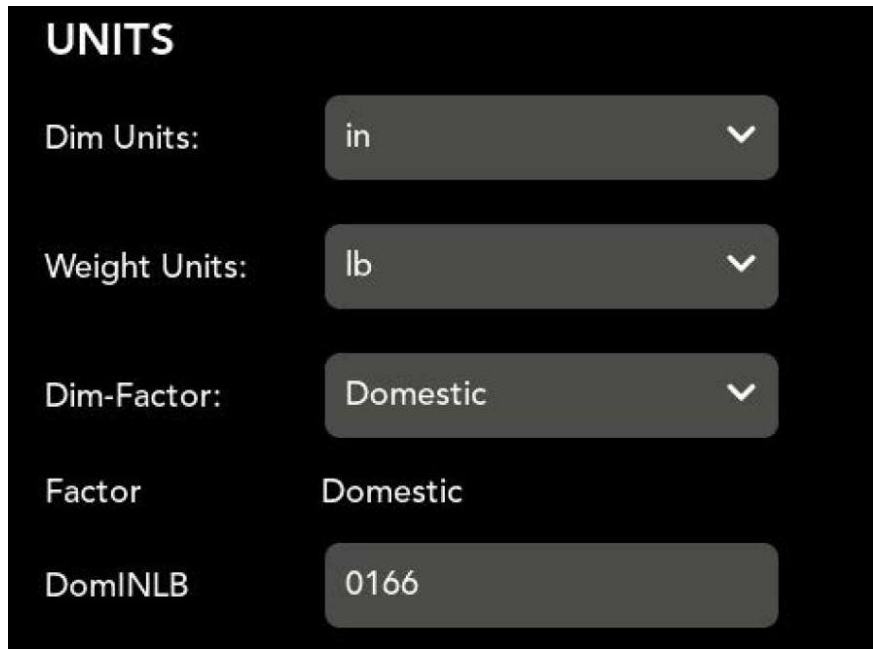
Figure 52 - Data-acceptance

SCALE Select internal to use the built-in scale or select disable to not use the scale.

BARCODE Select from none, one, or two. This will determine whether a barcode should be scanned and whether one or two barcodes should be scanned.

Units

The Units section provides configuration of measuring units. These units will be displayed on the measurement screen and will be posted to data acquired during measurements.



The screenshot shows a configuration screen titled "UNITS" with a dark background. It contains five rows of settings, each with a label and a value field. The first three rows have dropdown menus, while the last two have text input fields.

Label	Value
Dim Units:	in
Weight Units:	lb
Dim-Factor:	Domestic
Factor	Domestic
DomINLB	0166

Figure 53 - Units

DIMS UNITS In this field you can select inches, centimeters, or millimeters for your dimensional units.

WEIGHT UNITS In this field you can select pounds or kilograms for your weight unit.

DIM-FACTOR In this field you can select a domestic or international dim-factor.

FACTOR Will automatically set to the selected Dim-Factor (domestic or international). Below in the DomINLB, the pre-configured factor will be displayed for the given units and dim-factor selected. This factor may be adjusted as needed by entering the desired factor in the text field.

QR code

The Cubiscan 325v3 offers a QR Code that may be displayed on the touchscreen, providing dimensioning information. This may be used in

conjunction with third party software as a means of capturing the dimensioning information.

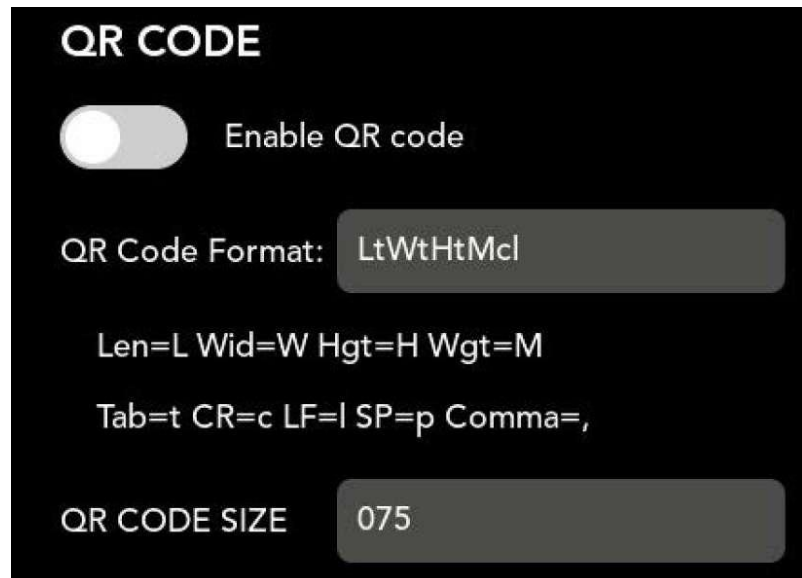


Figure 54 - Barcodes

ENABLE QR CODE Toggle to enable or disable the QR code. When enabled, the QR code will appear on the home screen after a product has completed dimensioning.

QR CODE FORMAT Determine the format that the information will be received. Using the commands as depicted in the chart below the text field, you may customize the format according to your needs.

QR CODE SIZE Set the size of the barcode that will display on the home screen.

Filter Mode

The filter mode is designed to filter out unwanted objects or artifacts that are not associated with the object being measured.

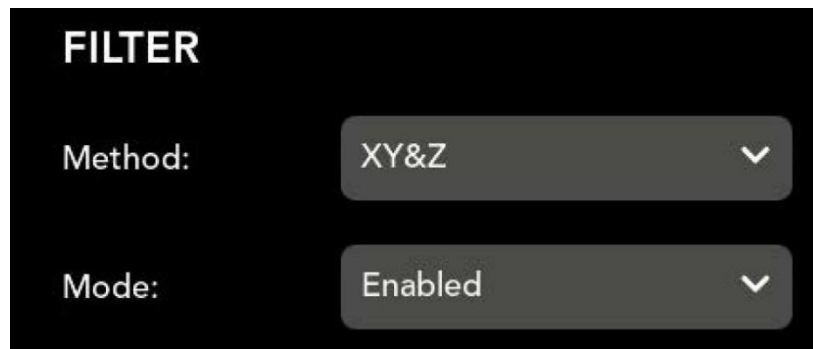


Figure 55 - Filter

METHOD Select from the options XY&Z or XY only. Selecting XY only will display length and width only. Selecting XY&Z to display length, width, and height.

MODE The Filter Mode options are disabled, enabled, auto-off, and lock-on:

- When Disabled is selected, the check box will not be visible on the home screen.
- When Enabled is selected, a filter mode check box will be visible on the home screen, and the mode can be enabled or disabled from the home screen.
- When Auto-Off is selected, the operator will need to manually select the check box for each measurement.
- When Lock-On is selected, the check box will always be checked and the Cubiscan 325v3 will take measurements in filter mode until the mode option is changed.

Apparel Mode

The apparel mode is a special measurement mode specifically designed for measuring clothing items. A compressor tool may be used to flatten the items for better measurement.



The screenshot shows a configuration interface for 'APPAREL'. It has a dark background with white text. The title 'APPAREL' is at the top left. Below it are three settings: 'Method:' with a dropdown menu showing 'Cmp Hgt', 'Mode:' with a dropdown menu showing 'Enabled', and 'Plate Hgt-mm:' with a text input field showing '0094'.

Figure 56 - Apparel

METHOD This drop-down menu offers different methods for measuring apparel.

- **Cmp Hgt:** This method produces compressed height results when using a compression plate.
- **Avg Hgt:** Some items have uneven heights. This method enables you to obtain the average height of an item.
- **Avg Len & Wid:** Some items have overstated lengths and widths. This method enables you to obtain the average dimensions of an item that may not have straight edges.
- **Cmp Hgt, Avg Len & Wid:** When using this method with a compression plate, the results will show the compressed height, and the average length and width of an item that may not have straight edges.
- **Avg Hgt, Len & Wid:** This option is ideal to obtain realistic dimensions for apparel and other flexible objects without the use of a compression plate. The results will display the average height, length, and width of an item.

MODE This drop-down menu offers different modes for using the apparel method feature. The options are disabled, enabled, auto-off, and lock-on.

- When **Disabled** is selected, the check box will not be visible on the home screen.
- When **Enabled** is selected, an apparel mode check box will be visible on the home screen.
- When **Auto-Off** is selected, the operator will need to manually select the check box for each apparel measurement.
- When **Lock-On** is selected, the check box will always be checked and the Cubiscan 325v3 will take measurements in apparel mode until the mode option is changed.

PLATE HGT-MM This field displays the height (85 mm) of the compression plate provided by Cubiscan. If a different compression plate is used, you'll need to change the value in this field so that the Cubiscan 325v3 can subtract the height of the compression plate from measurements in which it is used.

Scale units

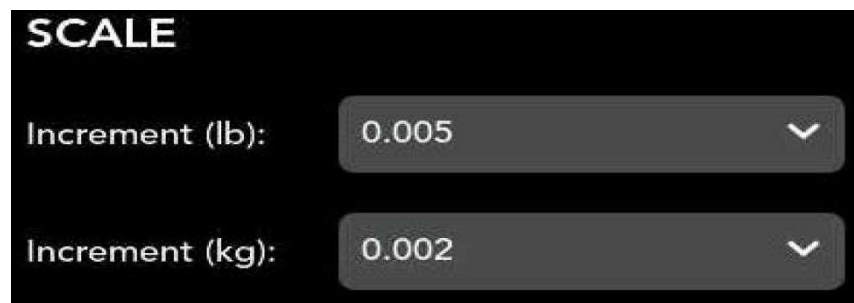


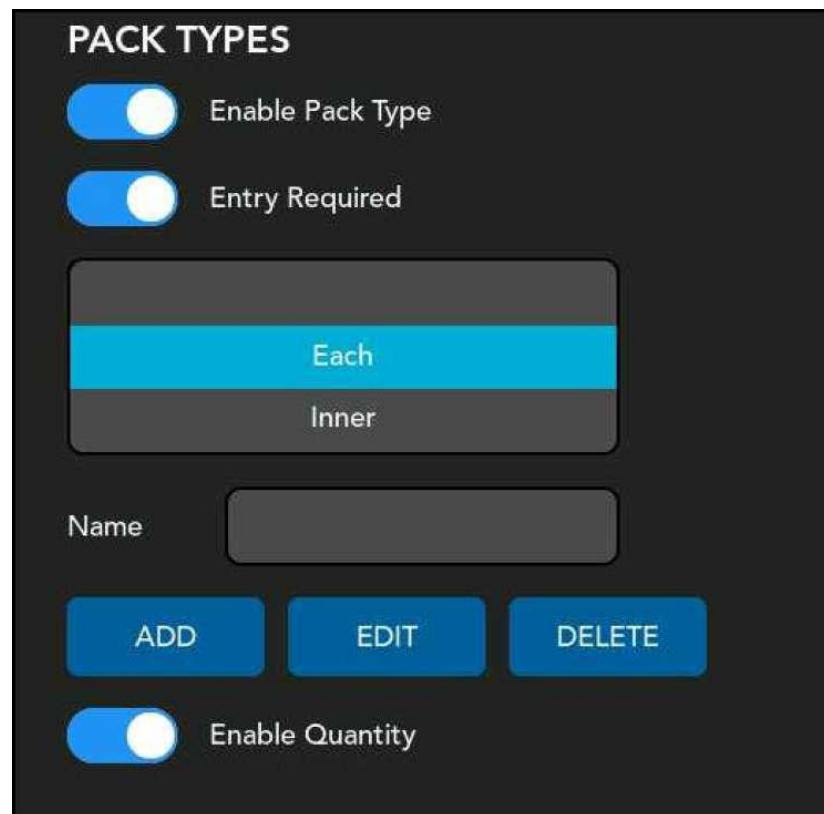
Figure 57 – Scale

INCREMENT (LB) Use the drop down to select the increments of pound measurements. Increment options include: **0.02**, **0.01**, or **0.005**.

INCREMENT (KG) Use the drop down to select the increments of kilogram measurements. Increment options include: **0.01**, **0.005**, or **0.002**.

Pack types

From this section, users may enable, set, and edit pack types.



PACK TYPES

☒ Enable Pack Type

☒ Entry Required

Each

Inner

Name

ADD **EDIT** **DELETE**

☒ Enable Quantity

Figure 58 - Pack types

ENABLE PACK TYPE Toggle to enable or disable the use of pack types in posted data.

ENTRY REQUIRED Toggle to enable or disable to require the user to enter pack type data for measurement.

ENABLE QUANTITY Toggle to enable or disable the use of a quantity field in user data.

Adding pack types

Complete the following steps to add pack type options to the drop-down list:

Enter the pack type to add in the **Name** field.

Tap **ADD** to add the pack type to the drop-down list.

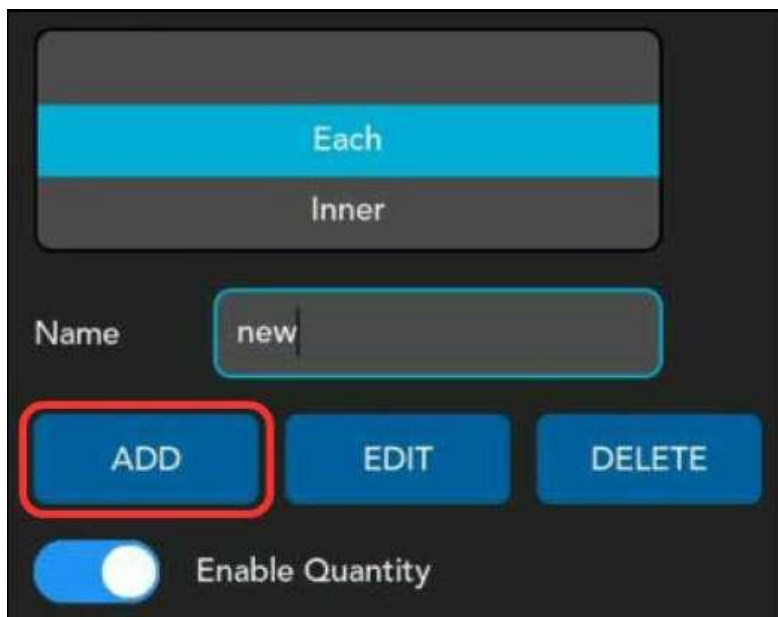


Figure 59 - Adding pack type

Editing pack types

Complete the following steps to edit pack type options to the drop-down list:

Select the pack type to edit.

Enter the new pack type name in the **Name** field.

Tap **EDIT** to edit the pack type to the drop-down list.

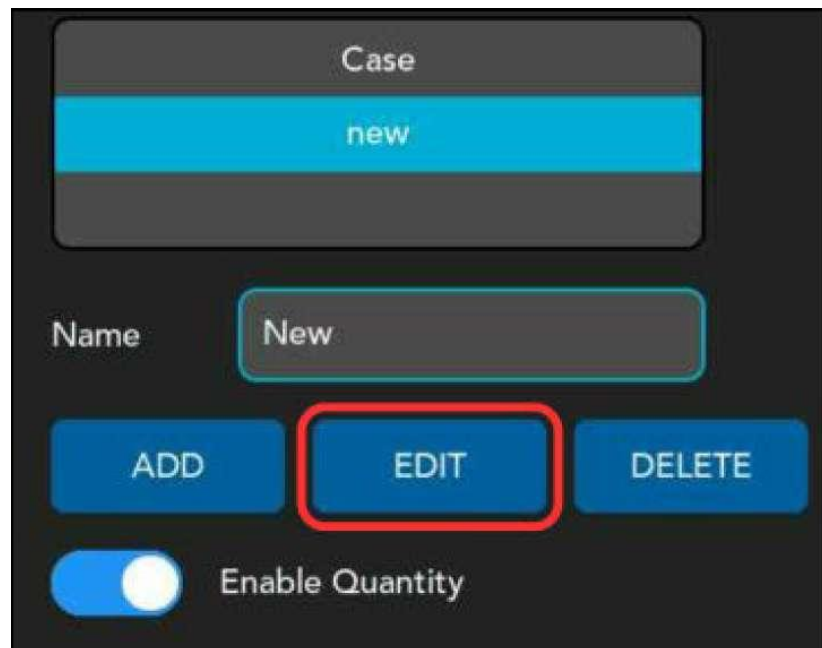


Figure 60 - Editing pack types

Delete pack types

Complete the following steps to edit pack type options to the drop-down list:

Select the pack type to delete.

Tap **DELETE** to delete the pack type to the drop-down list.

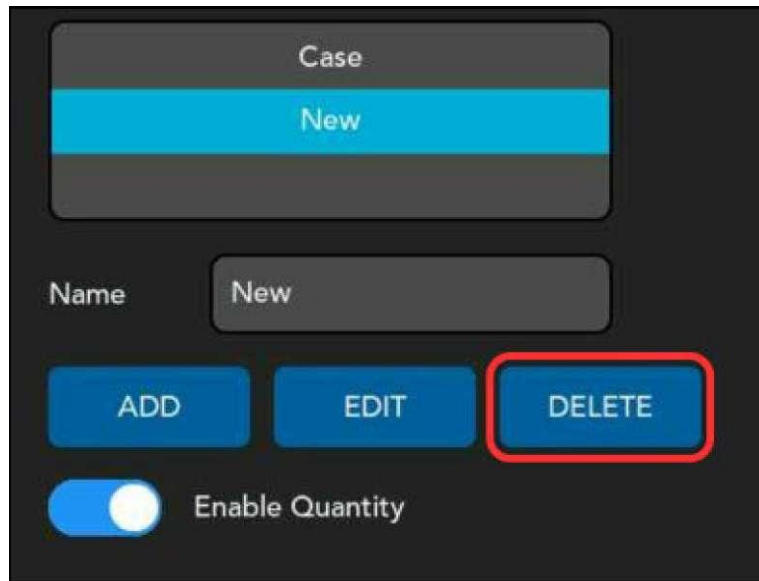


Figure 61 - Deleting pack types

miscconfig.txt

Text, toggles, drop downs, and text boxes may be configured through the miscconfig.txt found in the root directory of the unit. When set, these items will appear in the user data window.

```
{
  "misc_config": [
    {
      "name": "Fragile:",
      "required": true,
      "widget": "switch",
      "data_type": "boolean",
      "values": [
        true,
        false
      ]
    },
    {
      "name": "Company:",
      "required": true,
      "widget": "text",
      "data_type": "string",
      "values": [
        "Cubiscan"
      ]
    },
    {
      "name": "Site ID:",
      "required": false,
      "widget": "text",
      "data_type": "string",
      "keyboard": "alpha numeric"
    },
    {
      "name": "Package Type:",
      "required": true,
      "widget": "dropdown",
      "data_type": "string",
      "values": [
        "Box",
        "Bag",
        "Can",
        "Bottle",
        "Envelope"
      ]
    }
  ]
}
```

Figure 62 - miscconfig.txt

The following sample code is an illustration of the four types of items that may be set in the miscconfig.txt. Contact your system integrator or call Cubiscan Technical Assistance at 801.451.0500 for further assistance.

Text

Use the following sample code to set text such as **Company name**. This text cannot be changed by user and will appear with user data.

```
{  
  "name": "Company:",  
  "required": true,  
  "widget": "text",  
  "data_type": "string",  
  "values": [  
    "Cubiscan"  
  ]  
},
```

Figure 63 - Text

Text boxes

Use the following sample code to set text box field where users may input information. The text in the field will appear with user data.

```
{  
  "name": "Site ID:",  
  "required": false,  
  "widget": "text",  
  "data_type": "string",  
  "keyboard": "alpha numeric"  
},
```

Figure 64 - Text boxes

Toggles

Use the following sample code to set toggles. The toggle will appear with user data, giving a Boolean of True or False.

```
{  
    "name": "Site ID:",  
    "required": false,  
    "widget": "text",  
    "data_type": "string",  
    "keyboard": "alpha numeric"  
},
```

Figure 65 - Toggles

Drop-down

Use the following sample code to set drop down lists. The drop down will appear in the user data popup where the user may select an option. The selected option will appear with the user data.

```
{  
    "name": "Package Type:",  
    "required": true,  
    "widget": "dropdown",  
    "data_type": "string",  
    "values": [  
        "Box",  
        "Bag",  
        "Can",  
        "Bottle",  
        "Envelope"  
    ]  
}
```

Figure 66 – Dropdown

Connection



The Connection section Provides information and options for the setup of an Ethernet or other connection, allowing for the transfer of data from the CS 325v3.

To access the connection settings, perform the following steps:

1. Tap the menu icon in the upper left corner of the home screen.
2. From the menu side panel, select **CONNECTIONS**.

Ethernet settings

The Ethernet Settings field allows you to select the Ethernet settings for the Cubiscan. The following information is displayed to help you connect with the CS 325v3: **MAC Address**, **IP Address**, **Subnet**, and **Gateway**.

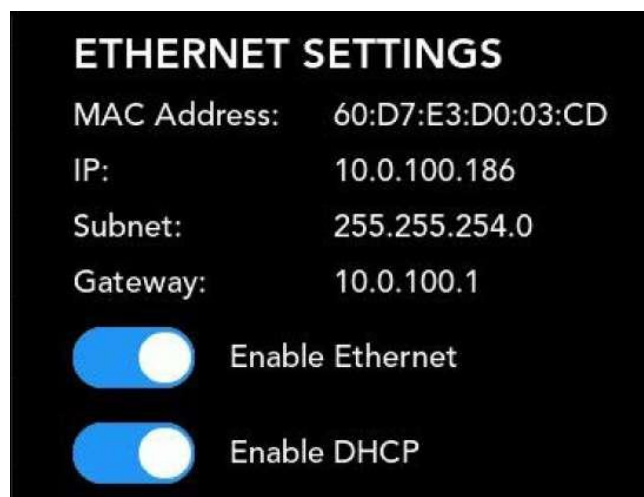


Figure 67 – Connection

ENABLE ETHERNET Toggling this option enables or disables the Cubiscan 325v3's ability to communicate via Ethernet.

ENABLE DHCP Toggling this option enables or disables a Dynamic Host Configuration Protocol (DHCP) connection.

Communication settings

Under the communication settings section are options for setting how the server will receive communications from the Cubiscan 325v3.

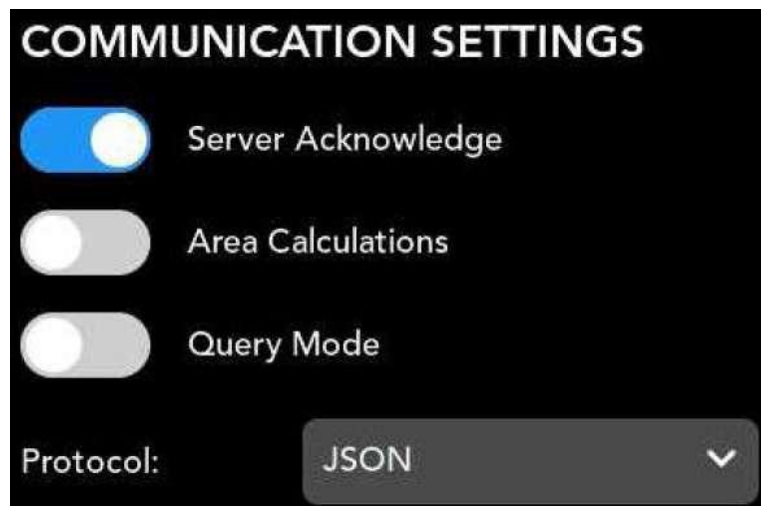


Figure 68 - Communication settings

SERVER ACKNOWLEDGE Toggle to enable/disable the server acknowledge function. When enabled, the measurement will not complete until an acknowledgment is detected from the server.

AREA CALCULATIONS Toggle to enable/disable the area calculation function. When enabled, the Cubiscan 325v3 will calculate an estimate of the area of the object in

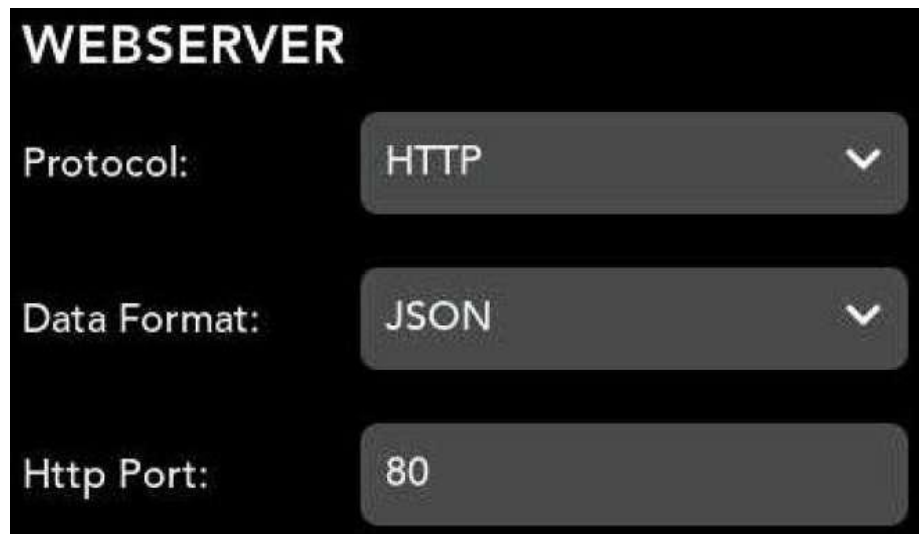
the XY plane. This calculation is not meant to be an accurate representation of area, but is an estimate used for tracking purposes.

QUERY MODE With Query Mode enabled, the Cubiscan 325v3 holds the measurement data packet until the string `<STX>M<ETX><CR><LF>` is sent. This allows the Cubiscan 325v3 to function more like a Cubiscan 100, allow those who have developed software to the Cubiscan 100 to easily adapt the Cubiscan 325v3 without significantly large change to the software.

PROTOCOL Sets the protocol for posting data to server (webserver posting not included). Options include **JSON**, **standard**, **expanded**, **CS-100L**, **JSON (Legacy)**, or **Custom**. The default is standard. If you are unsure what protocol to use for posting data, consult your network administrator.

Web-server settings

The Web-server settings provide options to set Protocol and certificate server request (CSR).



The screenshot shows a configuration window titled "WEBSERVER" with a dark background. It contains three settings:

- Protocol:** A dropdown menu currently showing "HTTP".
- Data Format:** A dropdown menu currently showing "JSON".
- Http Port:** A text input field containing the number "80".

Figure 69 - Connection: Protocol

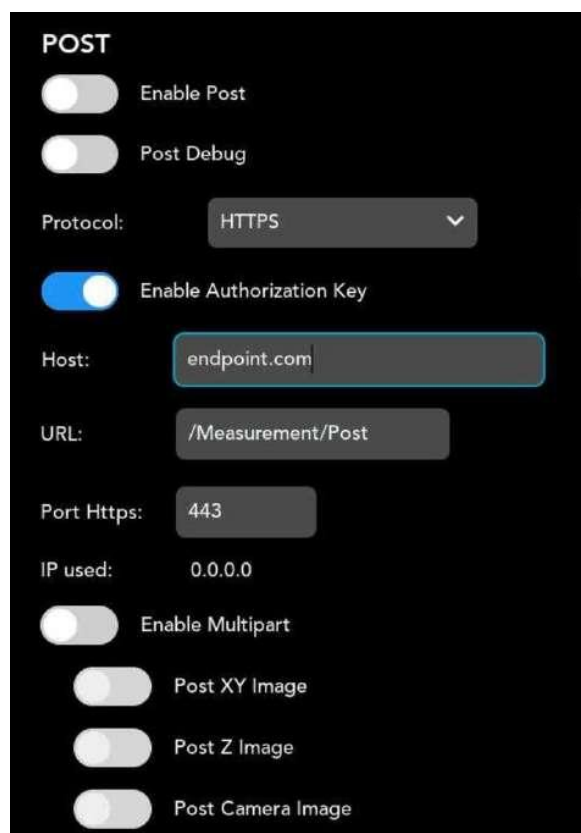
PROTOCOL Enable or disable Protocol and set desired Protocol. Options include **HTTP** and **HTTPS**.

DATA FORMAT Sets the protocol for posting data to webserver. Choose from the following data formats: **XML**, **JSON (Legacy)**, or **JSON**.

HTTP PORT Enter the port number for the webserver.

Post settings

The Post section provides a toggle to enable or disable the posting of data.



The screenshot shows a configuration interface for the 'POST' section. It includes several toggle switches and input fields. The 'Enable Post' toggle is currently off. The 'Post Debug' toggle is also off. The 'Protocol' dropdown menu is set to 'HTTPS'. The 'Enable Authorization Key' toggle is on. The 'Host' input field contains 'endpoint.com'. The 'URL' input field contains '/Measurement/Post'. The 'Port Https' input field contains '443'. The 'IP used' field shows '0.0.0.0'. There are four more toggle switches at the bottom: 'Enable Multipart' (off), 'Post XY Image' (off), 'Post Z Image' (off), and 'Post Camera Image' (off).

Figure 70 - Connection: Post

With post enabled, the following information will be needed for the Cubiscan to post data:

ENABLE POST	Toggle to enable/disable posting of measurement data.
POST DEBUG	Toggle to enable/disable posting of debug data.
PROTOCOL	Select the post Protocol from the dropdown. Options include HTTP and HTTPS .
ENABLE AUTHORIZATION KEY	When HTTPS protocol is selected, an option to enable authorization key will appear.
HOST	Enter host address of network to post data.
URL	Enter the address of the network to post data.
POST HTTPS	Enter the network port used to post data.
IP USED	Displays the IP address used to post data.
POST XY IMAGE	Toggle to enable the posting of XY images with data packet. The XY image is the image that appears in the upper box of the middle panel and depicts an overhead view of the measured object.
POST Z IMAGE	Toggle to enable the posting of Z images with data packet. The Z image is the image that appears in the lower box of the middle panel and depicts a side view of the measured object.
POST CAMERA IMAGE	Toggle to enable the posting of the camera image with data packet.

Get Settings

The GET section displays settings for the receiving of data from server.

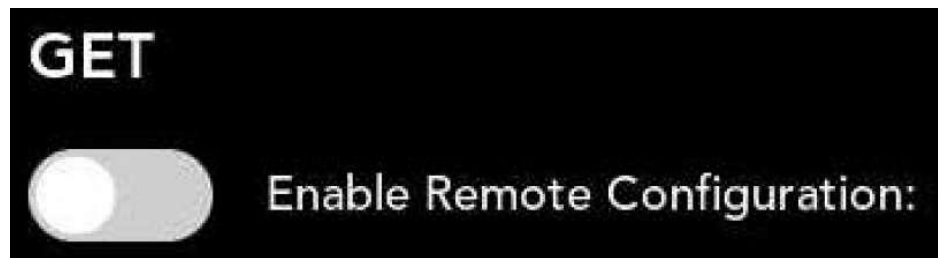


Figure 71 - Connection: Get

REMOTE CONFIGURATION Toggle Remote Configuration to enable or disable the ability of the Cubiscan to receive data.

Camera settings

The CAMERA section displays settings for enabling the use of the Axis camera for the capturing of the images.

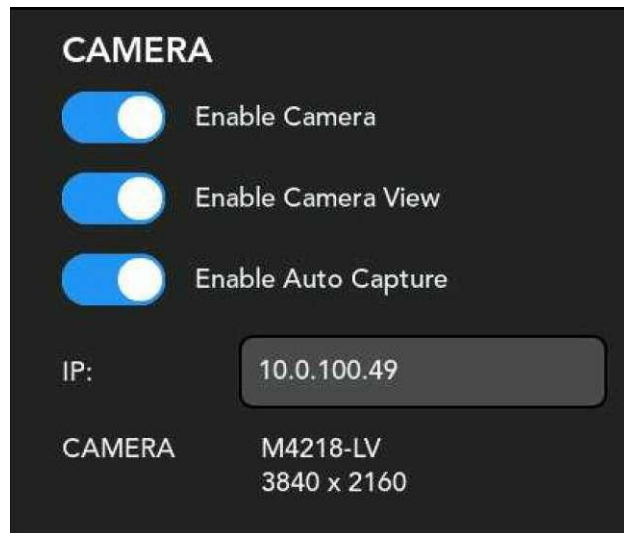


Figure 72 - Connection: Camera

ENABLE CAMERA Toggle to enable or disable the use of the Axis camera with the Cubiscan. This setting must be enabled to configure the Axis camera for posting images.

ENABLE CAMERA VIEW Toggle to enable or disable the camera view on the home screen.

ENABLE AUTO CAPTURE Toggle to enable or disable the automatic capturing of images by the Axis camera when a measurement is taken.

IP The IP to access the Axis camera.

Scale Setting



The Cubiscan 325v3 has a built-in scale. To configure the scale, complete the following steps:

1. Tap the menu icon in the upper left corner of the home screen.
2. From the menu side panel, select **SCALE**.

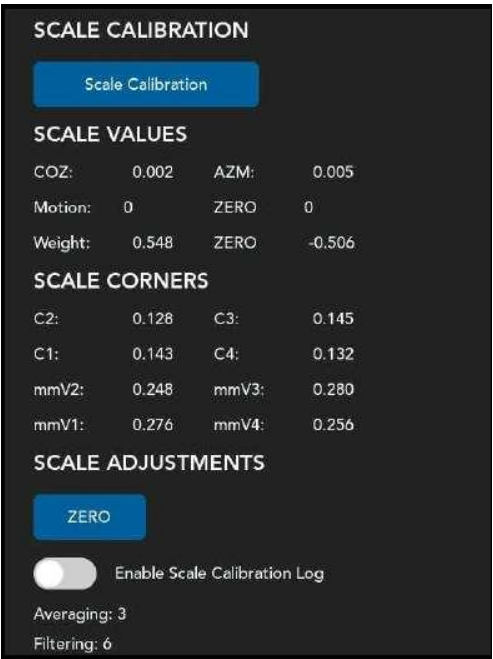


Figure 73 - Scale settings

SCALE CALIBRATION Tap button to begin scale calibration.

SCALE VALUES Displays information from scale including weight and zero.

SCALE CORNERS Displays information from scale about the load cells.

ZERO Tap **ZERO** button to zero the scale.

ENABLE SCALE CALIBRATION LOG Toggle to enable or disable the use of the scale calibration log. When enabled the unit will log scale measurements and other important diagnostic information.

AVERAGING Adjusts the amount of measurement data averaged during weighing. The greater the number, the more accurate the measurement. Increasing the averaging will increase the time to complete measurement.

FILTERING Adjusts the intensity of filtering during weighing. The greater the number, the more accurate the measurement. Increasing the filtering will increase the time to complete measurement.

Post Configuration



Configuration of post can occur either through the touch screen or through the embedded webserver (enter the Cubiscan IP address into a browser). To set up the configuration using the touchscreen, the following settings must be enabled:

1. Select **Measure Settings** from the side menu. Go to section **Measurement Settings**. Set the number of barcode from the Barcode dropdown.

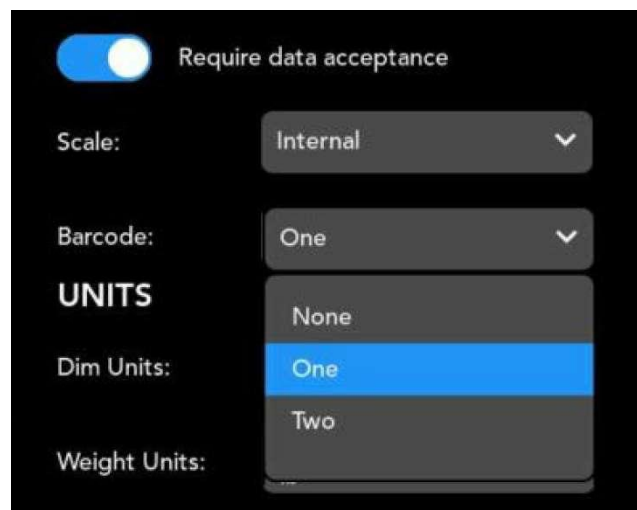


Figure 74 - Select barcode

NOTE



The USB barcode scanner must be configured to append an <ENTER> key when posting.

2. Select **Connection** from the side menu. Go to the section **Communication Settings** and set the following:

SERVER ACKNOWLEDGE: ON

PROTOCOL: 'JSON' or 'JSON(Legacy)'

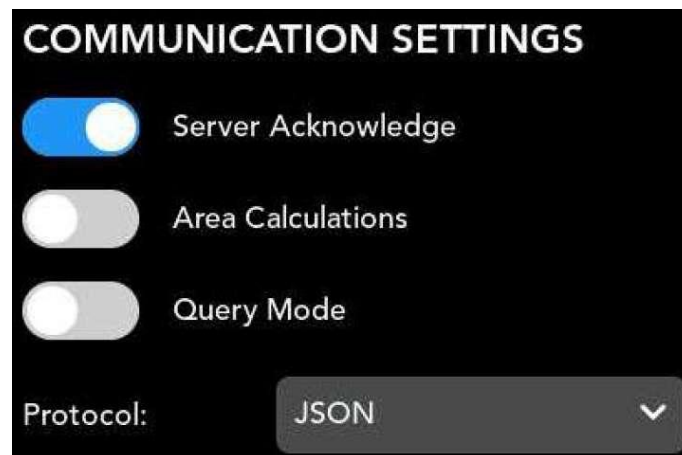


Figure 75 - Communication settings

3. Select **Connection** from the side menu. Go to section **Post** and set the following:

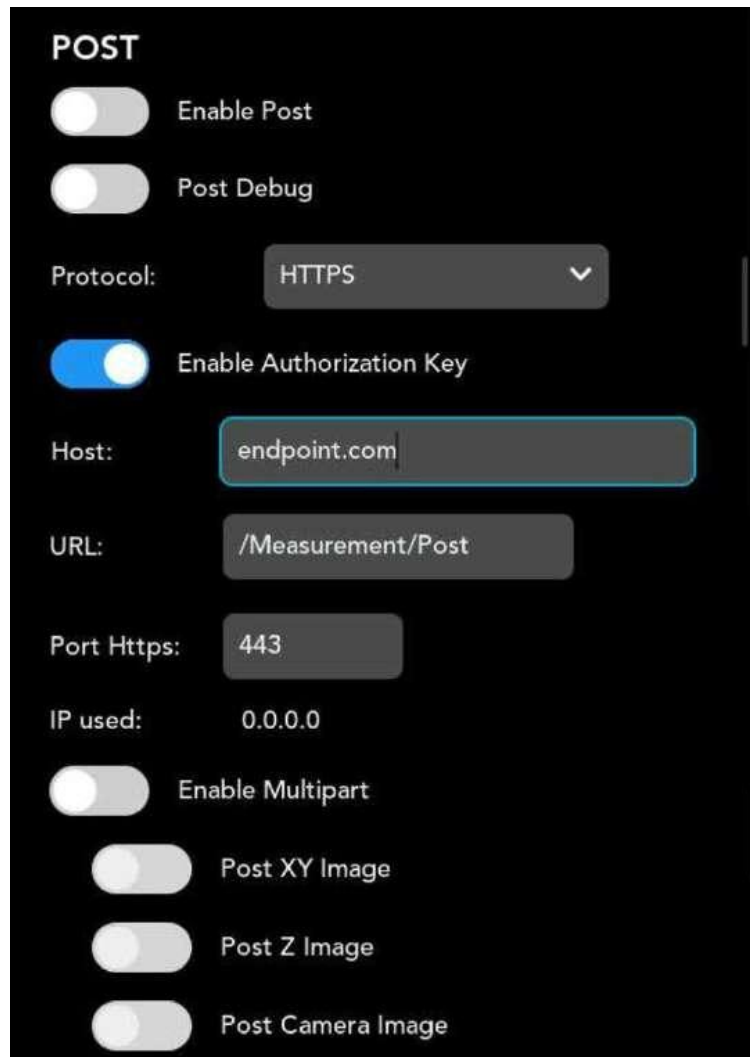
ENABLE POST: ON

PROTOCOL: Choose 'HTTP' or 'HTTPS'

HOST: Enter the endpoint. (example: "ptsv3.com")

URL: Enter the URL. (example: "/t/cs/")

PORT HTTPS: Enter the Port. For 'HTTP' input **80**. For 'HTTPS' input **443**.



The image shows a configuration screen titled "POST" with various settings. At the top, there are two toggle switches: "Enable Post" and "Post Debug", both of which are currently turned off. Below these is a "Protocol:" dropdown menu set to "HTTPS". Underneath the protocol is a toggle switch for "Enable Authorization Key", which is turned on. The "Host:" field contains the text "endpoint.com". The "URL:" field contains "/Measurement/Post". The "Port Https:" field contains the number "443". The "IP used:" field contains "0.0.0.0". At the bottom, there are four more toggle switches: "Enable Multipart", "Post XY Image", "Post Z Image", and "Post Camera Image", all of which are currently turned off.

Figure 76 - Post settings

4. If 'HTTPS' is selected, contact Cubiscan before enabling Authorization Key.

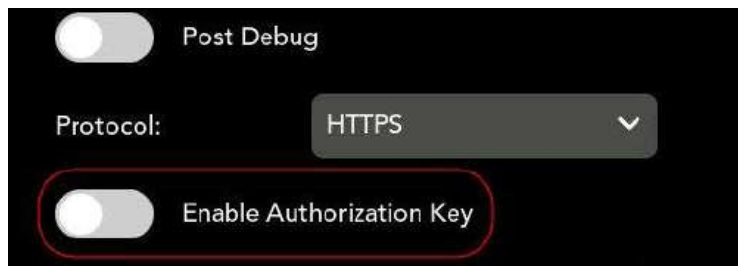


Figure 77 - Enable Authorization Key

5. Toggle the options for XY images and Z images to post with data.



Figure 78 - Image toggles

Testing Post

Complete the following steps to test the posting process and ensure that data is sent correctly:

1. With the home screen displayed, scan an item barcode.
2. Move the gate of the Cubiscan over the item to initiate measurement. The barcode, length, width, height, and weight will display on the home screen.
3. A green checkmark will appear below the measurements, indicating that the process was successful



Figure 79 - Test posting

4. From the side menu, select **Log**.
5. Select **POSTSENT.TXT** and tap **OPEN FILE**. The log of the sent post will display.



Figure 80 - Post sent log

6. Select **POSTRESP.TEXT** and tap **OPEN FILE**. The log of the response to the post will display. Look for the **"200 OK"** in the log. This serves as the server acknowledgment of the post.



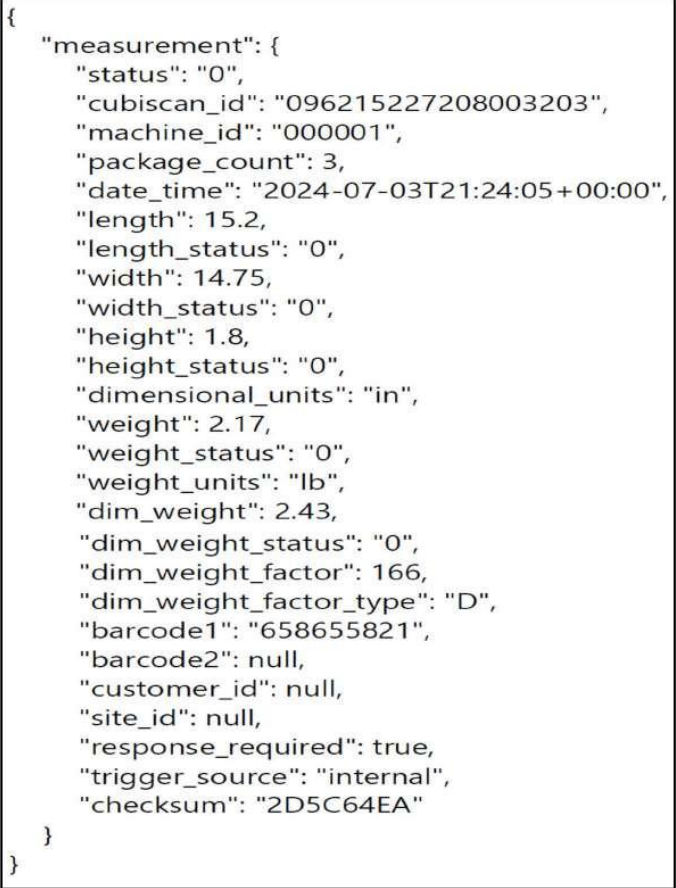
```
POSTRESP.TXT
HTTP/1.1 200 OK
Content-Length: 0
Date: Thu, 04 Dec 2025 17:54:49 GMT
Server: Microsoft-IIS/10.0
Set-Cookie: ARRAffinity=971882d557971c3372bd742d29c646e02116f2b8d9ba0766dc42b132723f6f8;Path=/;HttpOnly;Secure;Domain=azurewebsites.net
Set-Cookie: ARRAffinitySameSite=971882d557971c3372bd742d29c646e02116f2b8d9ba0766dc42b132723f6f8;Path=/;HttpOnly;SameSite=None;Secure;Domain=azurewebsites.net
Strict-Transport-Security: max-age=2592000
X-Powered-By: ASP.NET
```

Figure 81 - Post sent log

7. From the side menu, select **Connection**. Go to the **Post** section.

The IP used field displays the resolved IP address of the endpoint.

An example of the JSON payload is as follows:



```
{
  "measurement": {
    "status": "0",
    "cubiscan_id": "096215227208003203",
    "machine_id": "000001",
    "package_count": 3,
    "date_time": "2024-07-03T21:24:05+00:00",
    "length": 15.2,
    "length_status": "0",
    "width": 14.75,
    "width_status": "0",
    "height": 1.8,
    "height_status": "0",
    "dimensional_units": "in",
    "weight": 2.17,
    "weight_status": "0",
    "weight_units": "lb",
    "dim_weight": 2.43,
    "dim_weight_status": "0",
    "dim_weight_factor": 166,
    "dim_weight_factor_type": "D",
    "barcode1": "658655821",
    "barcode2": null,
    "customer_id": null,
    "site_id": null,
    "response_required": true,
    "trigger_source": "internal",
    "checksum": "2D5C64EA"
  }
}
```

Figure 82 - JSON log

For JSON (Legacy), the payload will be as follows:

```
{
  "csMeasureData": {
    "Status": "00",
    "Cubiscan_ID": "096215227208003203",
    "Machine_ID": "000001",
    "Package_Count": "00000005",
    "Date_Time": "20240703214359",
    "Length_Value": "15.20",
    "Length_Status": "00",
    "Length_Units": "in",
    "Width_Value": "14.80",
    "Width_Status": "00",
    "Width_Units": "in",
    "Height_Value": "1.80",
    "Height_Status": "00",
    "Height_Units": "in",
    "Weight_Value": "2.165",
    "Weight_Status": "00",
    "Weight_Units": "lb",
    "DimWeight_Value": "2.44",
    "DimWeight_Status": "00",
    "DimWeight_Units": "lb",
    "Factor_Value": "0166",
    "Factor_Type": "D",
    "Barcode1": "658655821",
    "Barcode2": "",
    "Customer_ID": "",
    "Site_ID": "",
    "Response_Required": "1",
    "Measure_CRC": "B447"
  }
}
```

Figure 83 - JSON (Legacy) log

NOTE



Status fields of "0" or "00" (Legacy) indicates success of post while a non-zero in the status field indicates failure.

5. CALIBRATION

This section provides instructions for calibrating the Cubiscan 325v3 touchscreen, measurement gate, and scale (load cells). The Cubiscan 325v3 is calibrated at the factory; however, some circumstances in which recalibration may be required include the following:

- Calibrate the touchscreen if you have trouble making selections on the screen.
- Calibrate the Cubiscan 325v3 if you have problems cubing and weighing after assembly and setup.
- Calibrate the Cubiscan 325v3 if it is subjected to any type of mechanical shock or collision with a heavy object.
- Calibrate the Cubiscan 325v3 as part of a regular maintenance schedule. Calibration of the scale is recommended at least annually. If the Cubiscan 325v3 is used heavily, scale calibration should be performed monthly.
- Perform quality checks as needed, depending on how critical the accuracy of the data is to you. Recalibrate if you are outside the tolerance of ± 0.05 inches (± 0.1 cm) for the gate or ± 0.010 pounds (± 0.005 kg) for the scale.

During quality checks or when calibrating, make sure that the Cubiscan 325v3 is not affected by external forces that may affect readings, such as sunlight or fans.

Before you begin Before calibrating the Cubiscan 325v3, remove all items or other material from the platform and blow any dust off the measurement sensors.

Calibrating the scale



To perform the calibration, you will need the following

- Official test weight up to 50 pounds (25 kg) (it is recommended that you calibrate with the maximum weight)

IMPORTANT: Do not begin scale calibration until you have the test weight.

Calibrating without an accurate known weight (within 0.01 of a lb/kg) can make all future weight readings inaccurate.

NOTE



When calibrating the scale, the Cubiscan 325v3 must be stable with no movement of the platform such as that caused by vibration or air.

Take the following steps to calibrate the Cubiscan 325v3 scale:

1. At the home screen, tap the menu icon in the upper left corner.



Figure 84 - Home screen

NOTE



If you have set up a password previously in the system configuration, you need to enter the password to unlock the menu.

2. Select **Scale** from the side menu. Tap the **Calibrate Scale** button to begin the scale calibration.

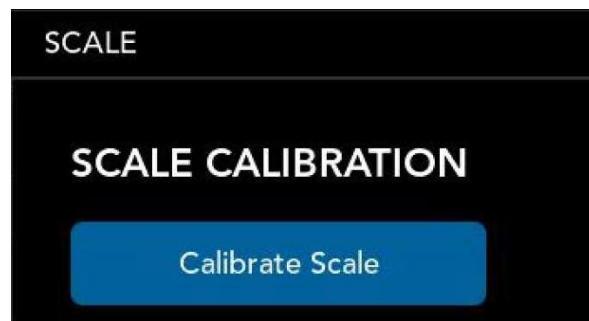


Figure 85 - Scale screen

3. The following screen is displayed. Follow the instructions as displayed.

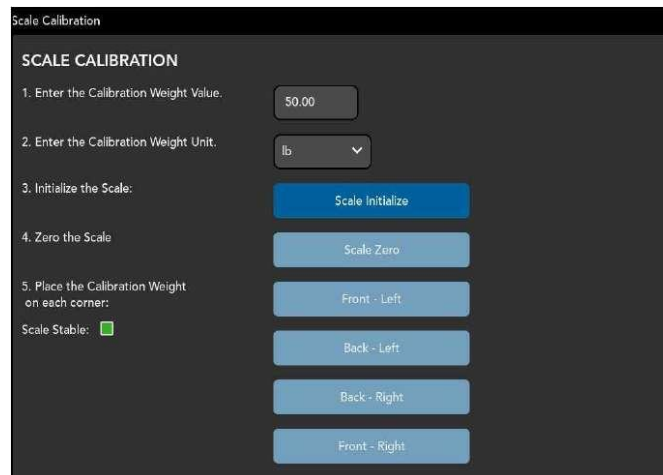


Figure 86 - Scale calibration screen

4. Enter the calibration weight value in the first text field. Then select the units in the dropdown below the field.
5. Clear the platform of all items. Tap **Scale Initialization** to begin the calibration process. A message will appear.

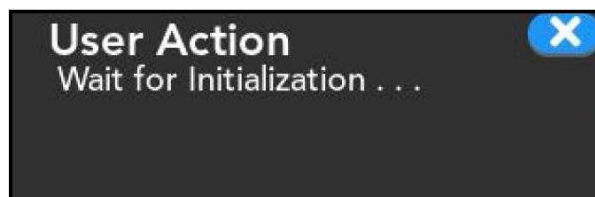


Figure 87 - Intialize message

6. After the scale has initialized, Tap **Scale Zero** to zero the scale.
7. Once the scale is zeroed, place the calibration weight on the platform starting at the front-left position.

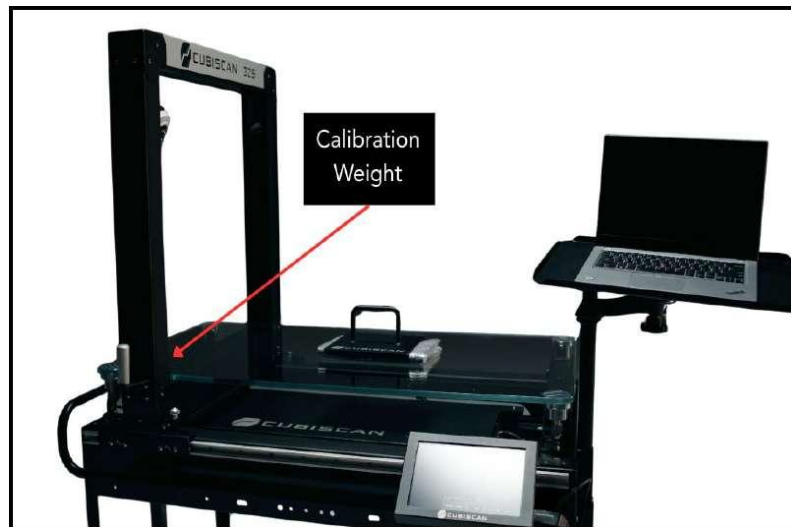


Figure 88 - Front-right position

8. With the calibration weight in place, tap **Front-Left**.
9. Once the calibration step is complete, place the calibration weight on the back-left position of the platform.

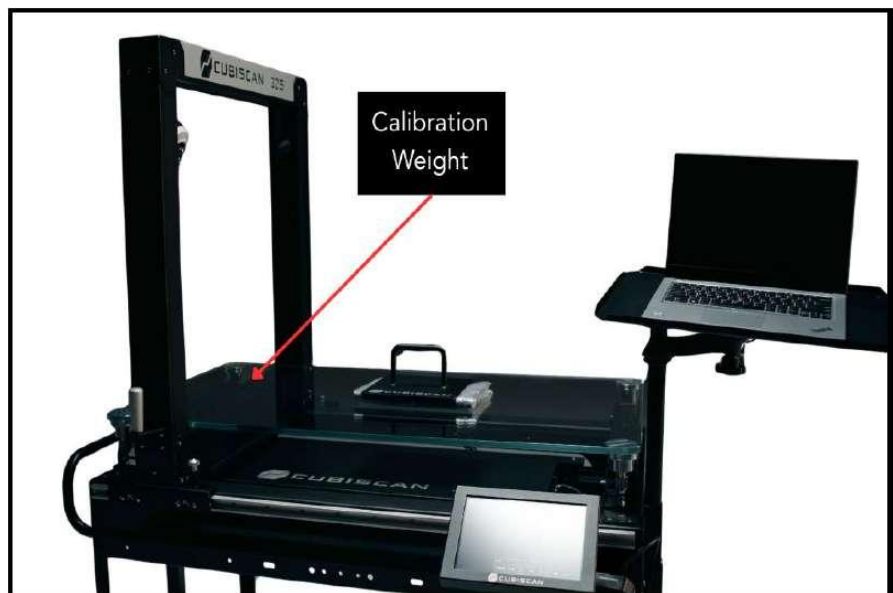


Figure 89 - Back-left position

10. With the calibration weight in place, tap **Back-Left**.
11. Once the calibration step is complete, place the calibration weight on the back-right position of the platform.

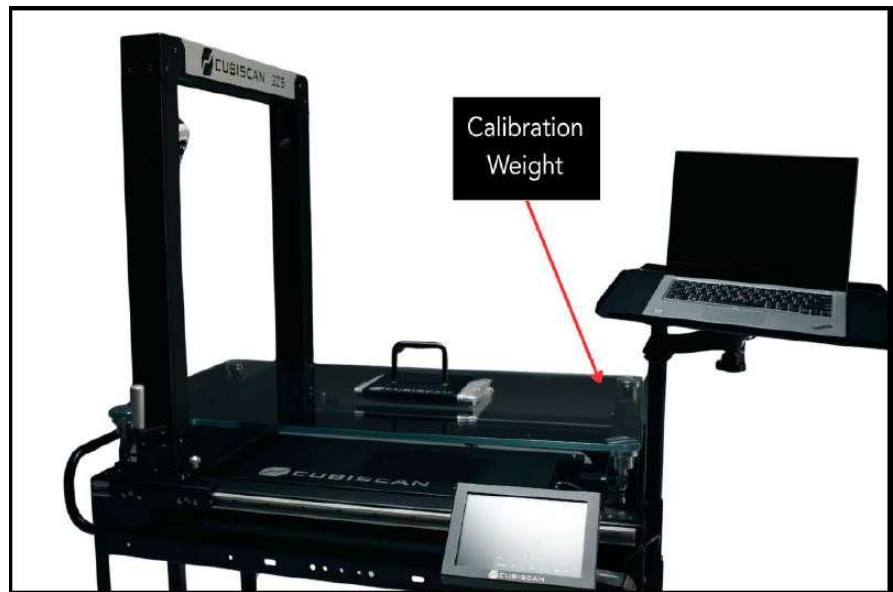


Figure 90 - Back-right position

12. With the calibration weight in place, tap **Back-Right**.
13. Once the calibration step is complete, place the calibration weight on the front-right position of the platform.

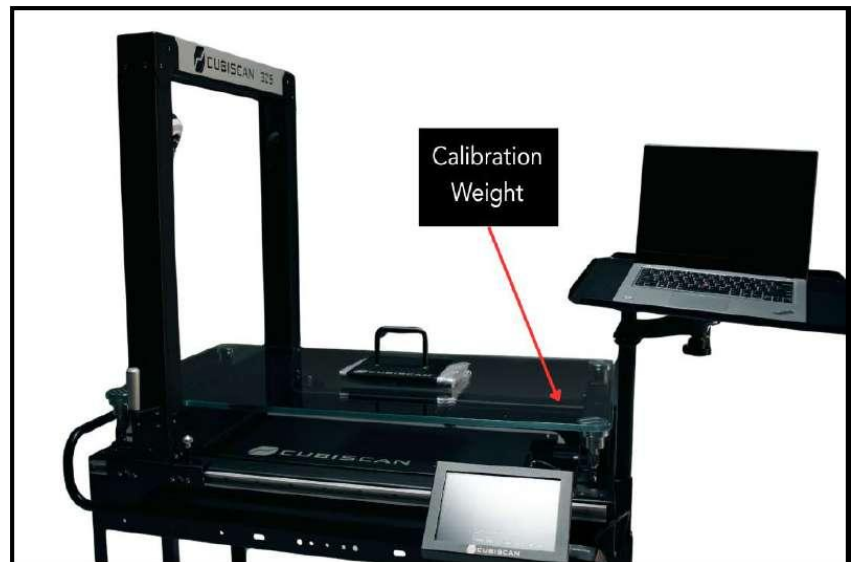


Figure 91 - Front-right position

14. With the calibration weight in place, tap **Front-Right**.
15. A message will display when calibration is complete.

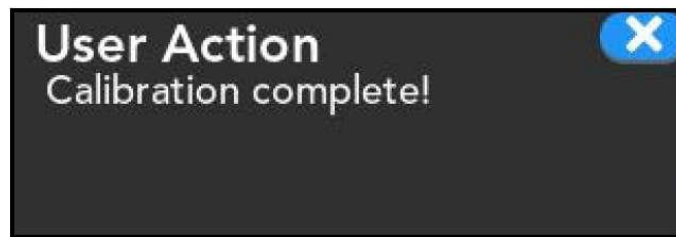


Figure 92 - Scale calibration complete

Calibrating height



To calibrate the height using the touchscreen, proceed as follows:

1. At the home screen, tap the menu icon in the upper left corner.

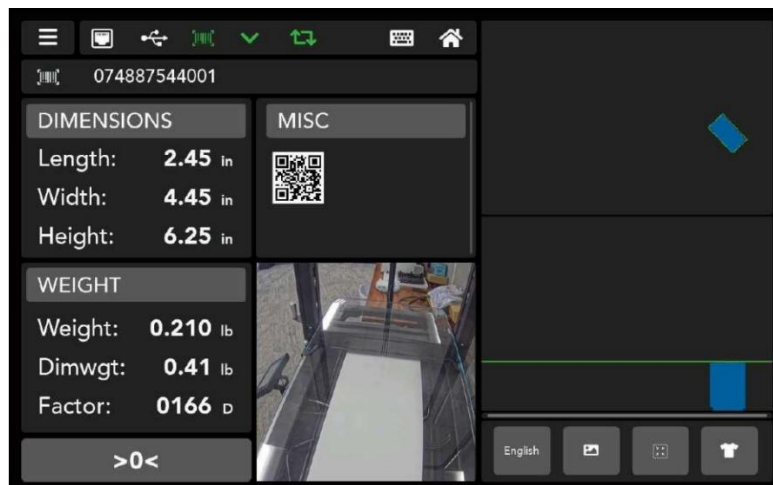
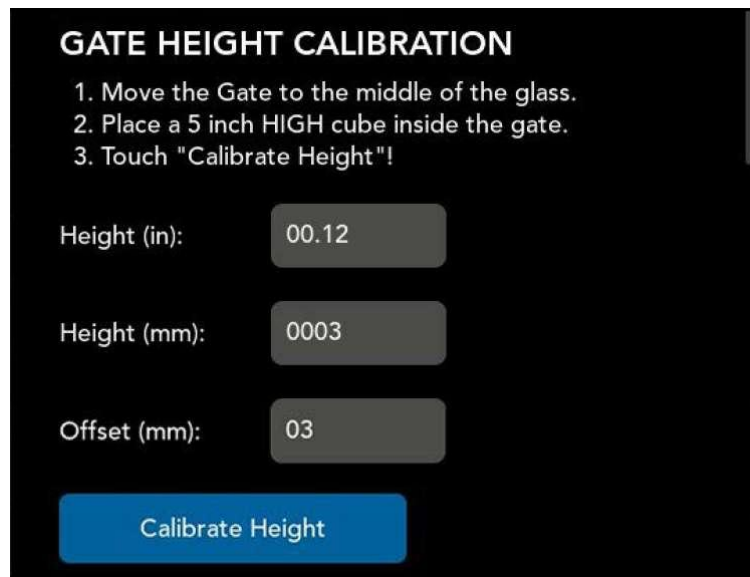


Figure 93 - Home screen

2. Select **GATE** from the menu selection.



GATE HEIGHT CALIBRATION

1. Move the Gate to the middle of the glass.
2. Place a 5 inch HIGH cube inside the gate.
3. Touch "Calibrate Height"!

Height (in): 00.12

Height (mm): 0003

Offset (mm): 03

Calibrate Height

Figure 94 - Gate calibration screen

3. The 5" measuring cube is required for calibration.

The Height (in) and Height (mm) fields display live values and will change when the 5" box has been placed in the gate. The Offset (mm) field will display the offset value after tapping the **Calibrate Height** button.

Follow the instructions displayed under the **GATE HEIGHT CALIBRATION** section to finish gate calibration.

4. Move the gate to the middle of the glass.
5. Place the 5" calibration cube inside the gate and tap **Calibrate Height**. The Cubiscan will calibrate to the height of the calibration cube.

Calibrating the touchscreen



If you are having problems selecting functions on the touchscreen, you may need to recalibrate it. You should recalibrate any time it becomes difficult to select options on the screen.

Take the following steps to calibrate the touchscreen:

1. From the menu, tap **CALIBRATE**. Select the **Touchscreen** option if it is not already selected.

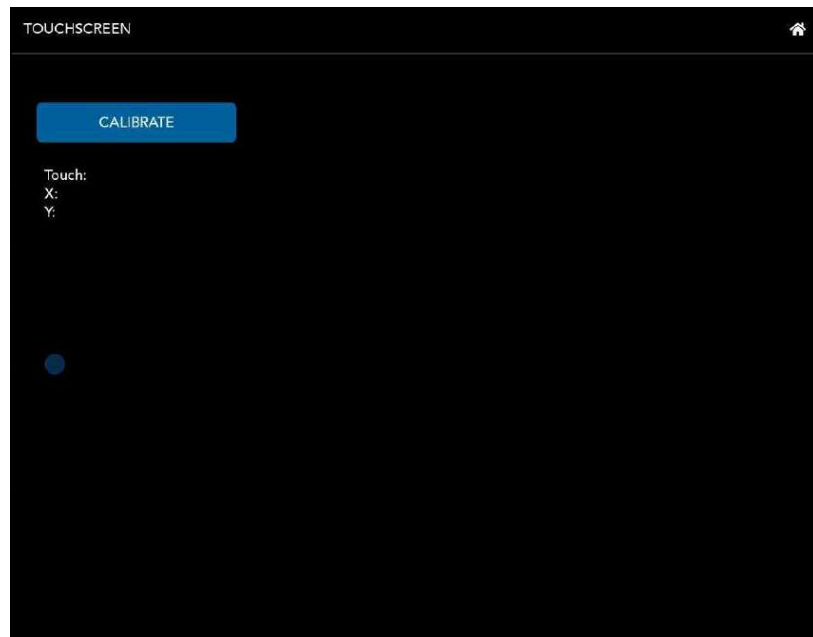


Figure 95 - Touchscreen calibration screen

2. Using a stylus or your finger, touch the center of each blue box on the screen until the "O" turns green. There are five calibration points on the screen.

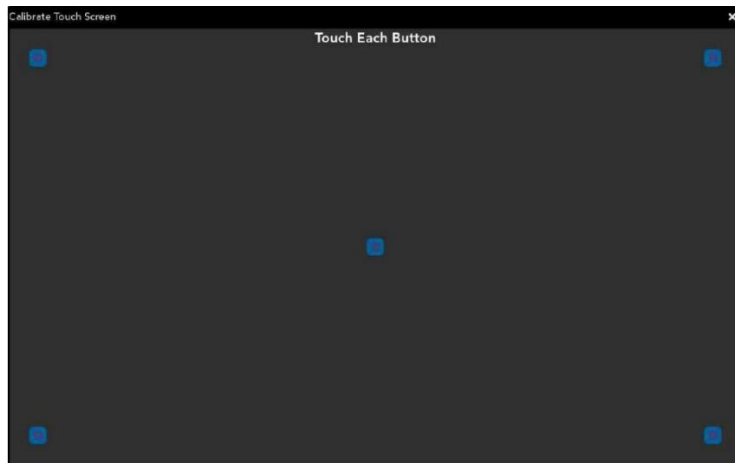


Figure 96 - Touchscreen calibration

3. When all the O's are green, the calibration is complete.

6.MAINTENANCE

This chapter provides information on the care and maintenance of the Cubiscan 325v3. Routine maintenance and careful handling will help keep the Cubiscan in good operating condition and prevent service calls or repairs.

Precautions



The Cubiscan 325v3 should not be subjected to extremes in temperature or humidity, nor should it be subjected to excessive vibration.

The Cubiscan uses a class 1 laser under **IEC 60825-1**. This class of laser is safe for basic use. However, tampering with the laser may result in excess radiation exposure that could potentially be harmful to the user. For this reason, the sensor is considered serviceable, except by a certified Cubiscan technician.

Before performing any maintenance on the Cubiscan, ensure the power is turned off and the Cubiscan is disconnected from the power outlet. No servicing should be done to electronic components without first contacting **Cubiscan Technical Assistance** at **801.451.0500** for assistance.

The sensor head and touchscreen contain sensitive and highly charged components that may cause serious injury if tampered with. The

components may also compromise the integrity of the components causing malfunction which may void the warranty.

The Cubiscan325v3 has been designed to accept overload without damage. However, rough handling and abuse, over time, can cause the load cell to lose much of its spring action. In addition, severe shock loading can cause permanent zero shift, making the scale inoperable.

Do not put packages on the platform that are known to be over 50 pounds (25 kg). All objects, especially heavy ones, should be placed on the platform gently. Shock loading will occur if an object is dropped or thrown onto the platform. This puts unnecessary and potentially damaging pressure on the load cell.

Cleaning the gate filters



This section describes how to clean the gate filters. The gate filters should be kept clean. While dust normally won't interfere with sensor operation, they should be cleaned routinely to prevent the possibility of interference.

To clean the gate filters, use a clean, damp (if needed) microfiber cloth. Use water to dampen the cloth; do not clean the gate filters with a solvent as this could cause damage.

Removing the controller



If you suspect that there is a problem with the Cubiscan 325v3 controller, first review the Troubleshooting chapter and take any recommended action. If the problem persists, contact **Cubiscan Technical Assistance** at **801.451.0500** for assistance.

If Cubiscan recommends removing the controller and returning it for service, proceed as follows.

1. Turn off the power switch and disconnect the power cord from the controller.
2. Remove the two center cover thumb screws that secure the cover. Slide the cover to the left so that you can access the controller cables.
3. You can try to remove the controller without removing the glass, or you can remove the glass platform using two people. It can simply be lifted off the Cubiscan 325v3 base. Place the platform in a safe location where it will not get stepped on or broken.
4. Move the gate to the far-left position



Figure 97 - Control box

Locate the controller (the black box located below the gate's home position). Remove the screws securing the controller box.

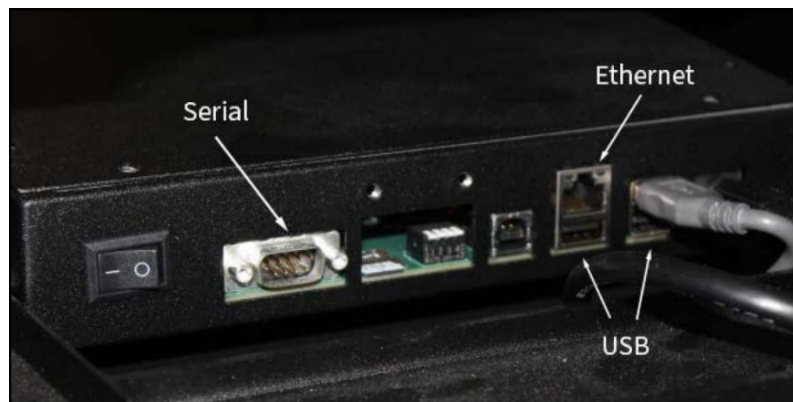


Figure 98 - Controller inputs

Disconnect all connectors that are attached to the controller box as follows:

- To remove the Ethernet cable, press the tab on the connector to release it, and pull it straight out.
- To remove the USB and display cable, simply pull it straight out using even pressure.
- To remove the serial and load cell cables, loosen the screws and pull the cable connectors out using even pressure.
- To remove the gate power, proximity sensor, and encoder cables; unscrew the cables and pull them straight out.

- Remove the nut holding the ground cable on the side of the control box using an 11/32" nut driver and detach the ground cable from the controller.

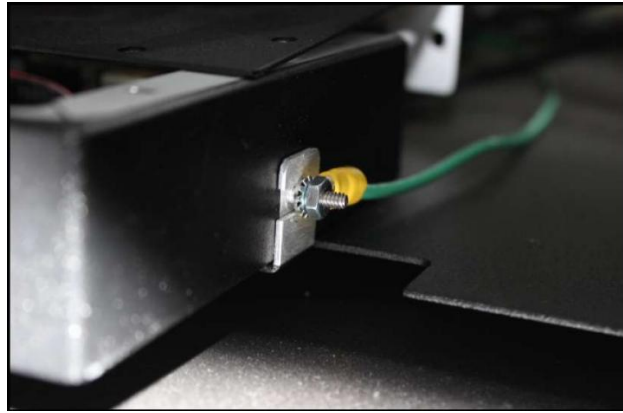


Figure 99 - Ground cable

Verify that all cables have been removed from the controller, then lift the box up and pull it out sideways (to the right) until it is clear of the metal frame of the Cubiscan 325v3.

7.TROUBLESHOOTING

This chapter provides assistance in identifying and solving common problems with the Cubiscan 325v3. If you encounter problems not covered in this chapter, or if a defect is suspected, contact your system integrator or call **Cubiscan Technical Assistance** at **801.451.0500** for assistance.

After installation, some problems are caused either by incorrect cabling or because the system setup is not correct. If you are having problems with the Cubiscan 325v3, first verify that all cables attached to the controller box (serial communications cables, sensor cables, power cord, Ethernet cable, load cell cable) are fully seated and secure (locking rings, clips, or screws). Then, verify that the setup is correct.

Problems with your computer may affect operation of the Cubiscan 325v3 system. If you have trouble starting Qbit or if you encounter problems with your computer (including computer-related error messages), refer to your computer manual or contact your computer representative or dealer for assistance.

Frequent computer errors may be caused by dust or static electricity. It is important that your computer be kept as clean and static free as possible. Consult your computer manual for information.

If problems continue, review the following sections for more information.

No response when powered on



If there is no response when you power on the Cubiscan 325v3, do the following:

1. Verify that the AC power cord is pressed firmly into the power socket.
2. Check the fuse in the fuse drawer next to the power switch.
3. Verify that the AC power source is working properly.

Contact **Cubiscan Technical Assistance** at **801.451.0500** for additional help.

Inaccurate scale readings



If you suspect that the Cubiscan 325v3 scale readings are inaccurate, do the following:

1. Zero the Cubiscan 325v3 by tapping the >0< button on the home screen.
2. Make sure that the Cubiscan 325v3 is on a level surface.
3. Make sure the scale setting in menu is set to Internal.
4. Move the Cubiscan 325v3 if it is located close to open freight doors or where air is blowing on it. Extreme air flow can affect the accuracy of the Cubiscan 325v3.
5. Recalibrate the Cubiscan 325v3.

Inaccurate dimension readings



If you suspect that the Cubiscan 325v3 dimension readings are inaccurate, do the following:

1. Check the glass platform and gate filters for dirt or debris. Clean the glass platform with a clean, damp cloth.
2. Verify that the image is representative of the measured item. If not, check gate diagnostics of the Cubiscan 325v3.

Computer error messages



The following error messages generated by Qbit indicate a communications problem between the Cubiscan 325v3 and the computer:

**NO
COMMUNICATION
WITH CUBISCAN**

This message indicates that no communication is taking place between the computer and the Cubiscan 325v3.

**TRANSMISSION
ERROR**

This message indicates that erroneous data or garbled data is being sent from the Cubiscan 325v3.

If you receive one of these messages, verify the following:

1. Is the Cubiscan 325v3 turned on and securely connected to power?
2. Is the network cable connected to both the Cubiscan 325v3 and the computer or network, and are both connections secure?
3. (Computer connection) Is the network cable connected to the computer?
4. Is there a problem with the computer or network? Troubleshoot the computer or contact your network administrator.

Version



This section discusses the options available on the Version menu. To access the version screen, tap the menu icon in the upper left corner of the home screen.



Figure 100 - About: Version

The following information will display about the Cubiscan 325v3 and its firmware:

MAC-ADDRESS	The Media Access Control (MAC) address.
SERIAL NUMBER	The product number that is unique to each Cubiscan 325v3.
MDM	The Multiple Dimensional Measuring Instrument (MDMI) status. This status can either be sealed or unsealed.
NAWI	The Non-Automatic Weighing Instrument (NAWI) status. This status can
OPERATION HOURS	The total hours of operation for the Cubiscan 325v3.
FIRMWARE	The firmware version used for the main controller, including build and Kernel.

Firmware

This section displays the firmware version used for the main controller, including build and kernel. This information is useful when a technician is diagnosing issues that may arise from the Cubiscan firmware.

Updating Firmware

1. From the **Version Screen**, go to the **Firmware** section.
2. Select the version of the firmware you wish to install from the list of firmware. The list will appear in a gray box. For the firmware to appear in this list, it must be installed through a network connection. For instructions on how to load firmware through a microUSB, contact **Cubiscan Technical Assistance** at **801.451.0500**.



Figure 101 - Updating firmware

3. Tap **START UPDATE**, to begin the update of the firmware.

Soft Reset

There may be an occasion that the Cubiscan 325v3 will need a soft reset. This is a reset of the operating system without shutting off the power to the machine. A soft reset may be necessary if the operating system is not working as intended or is running sluggish.

Complete the following steps to initiate a soft reboot:

1. From the Version Screen, go to the **Reset** section



Figure 102 - Soft reset

2. Tap **SOFT RESET**, to initiate soft reset.

Diagnostics



This section describes the diagnostic capabilities of the Cubiscan 325v3.

Gate diagnostics

The gate diagnostics screen is used to help technicians determine if there are issues with the gate sensors. If you suspect the gate is not working properly, contact **Cubiscan Technical Assistance** at **801.451.0500**.

Complete the following steps to view the gate diagnostics:

1. From the menu on the home screen, select Gate.
2. On the gate screen, tap **Diagnostic Gate** in the Gate Diagnostics section.



Figure 103 – Diagnostic Gate

The four LED beam bars now shown on the left-side of the display represent the LED beams that the Cubiscan 325v3 uses to measure objects. This is a useful screen for determining the functionality of the LED beams.

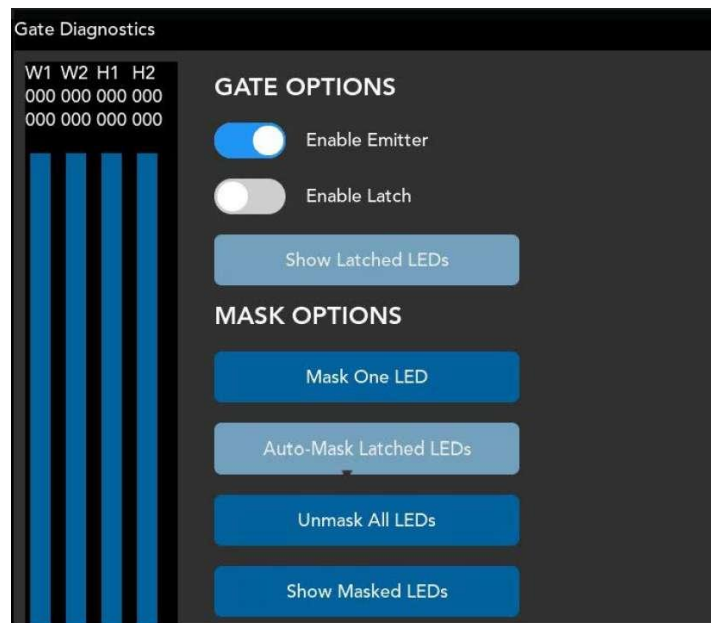


Figure 104 - Gate Diagnostics

The width and height bars correspond to the width and height boards in the measurement gate.

These LED beam bars are solid blue when no light beams are being broken, which typically means that there is no object in the measurement field. The beams turn yellow when there is break in the beam.

The four LED beam bars now shown on the left-side of the display represent the LED beams that the Cubiscan 325v3 uses to measure objects. This is a useful screen for determining the functionality of the LED beams.

The width and height bars correspond to the width and height boards in the measurement gate.

Gate Options

Under the section Gate Options are controls for enabling the emitter and latch functions.

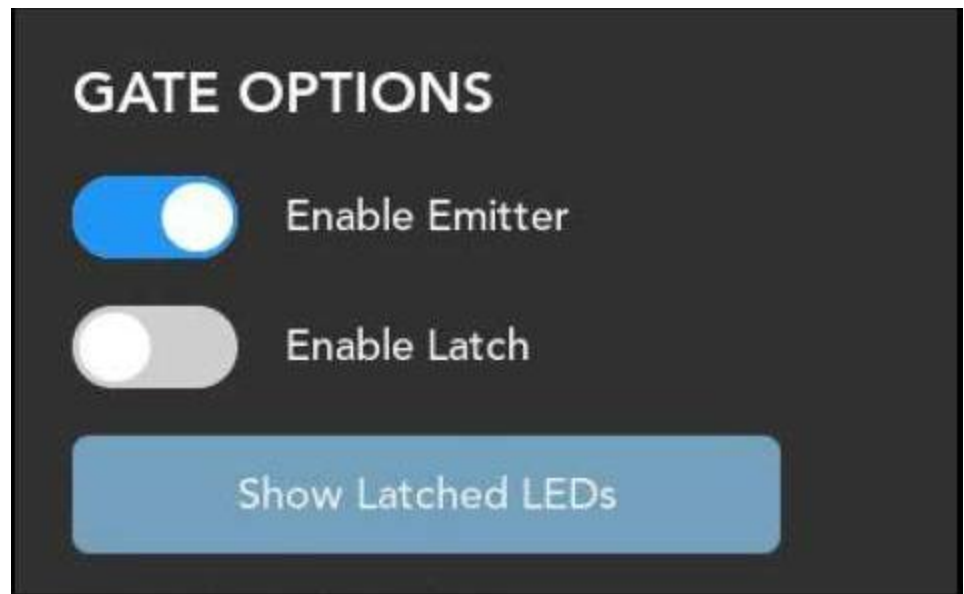


Figure 105 - Gate Options

ENABLE EMITTER Toggle the emitter LEDs on and off. The **Enable Emitter** toggle should always be enabled when you are measuring objects. When this box is unchecked, the gate is not emitting light and cannot measure objects.

ENABLE LATCH Toggle the latching function on and off. When toggled on, red marks will display next to places where the beam is broken.

SHOW LATCHED LEDs Tap **Show Latched LEDs** to display a list of all latched LEDs. This information may be helpful to mask LEDs that are negatively affecting measurements.

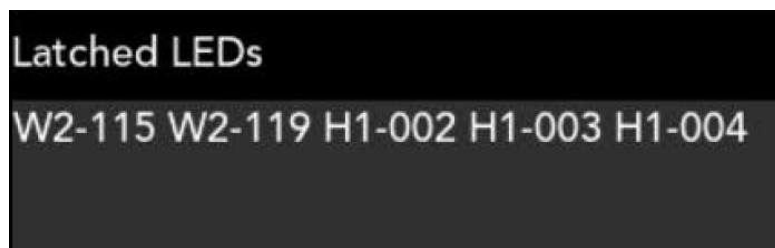


Figure 106 - Latched LEDs

Mask Options

Under the section Mask Options are controls for masking LEDs for both the width and height. When masked, an LED will not transmit or receive. This may be necessary to prevent the inclusion of an LED that may be problematic during the measuring process.

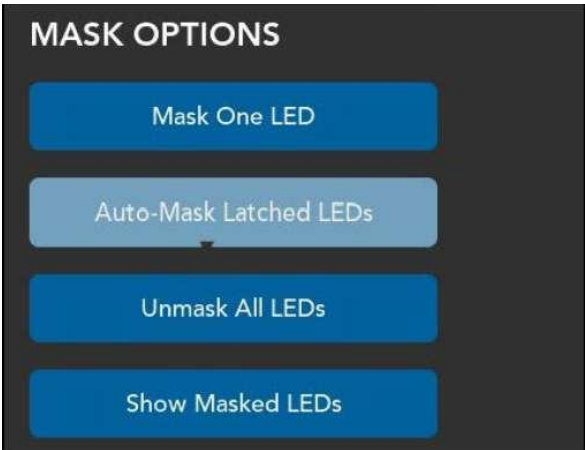


Figure 107 - Mask Options

MASK ONE LED Tapping **Mask One LED**, will display a pop up where an LED can be masked manually by entering its Width and Height positions. Below the text fields is a list of LEDs that are currently masked.



Figure 108 - Masking an LED

- | | |
|-----------------------------------|---|
| AUTO-MASK
LATCHED LEDS | Tap Auto-Mask Latched LEDs to mask any LEDs that are currently latched. Masked LEDs will show as black bars in the displayed beams. |
| UNMASK ALL
LEDS | Tap Unmask All LEDs to remove the mask from all LEDs. |
| SHOW MASKED
LEDS | Tap Show Masked LEDs to display a list of all masked LEDs. This information may be helpful to mask LEDs that are potentially defective |

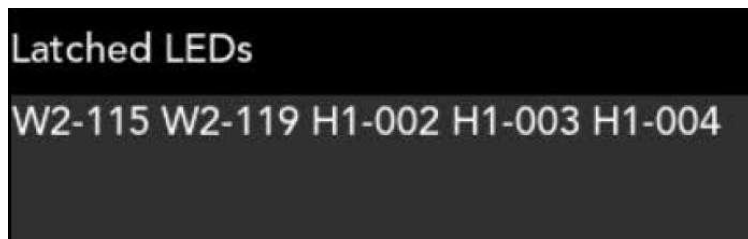


Figure 109 - Latched LEDs

Masking LEDs

Issues may arise in the measuring process that prevent the CS 325 from properly identifying the smallest bounding square around an object.

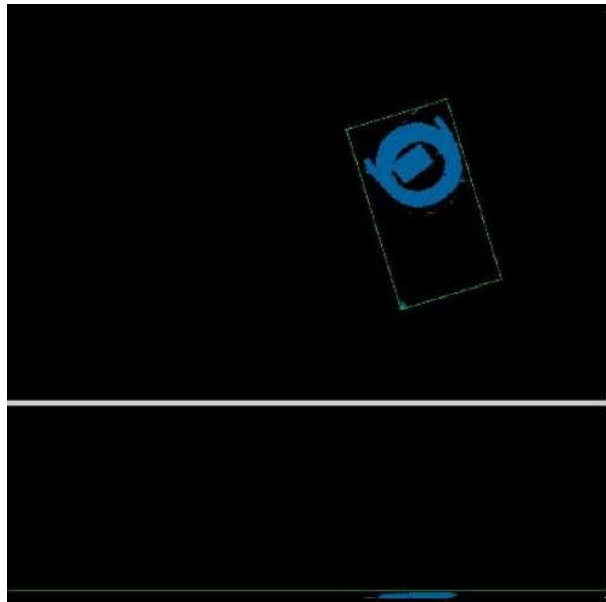


Figure 110 – Errors in measuring

Causes of errors in measurement may include:

- Dirt or imperfections in the glass blocking beams.
- The glass platform is not properly leveled or has a deformity causing it to slope.
- Defective LEDs or sensors.

Generally, if the issue is centralized to one location, it is an indication that the platform may need cleaned. If the issue stretches along the entirety of the platform or a large section of it, the platform may be sloping. Before masking LEDs clean the platform and ensure it is level.

If issues persist in the measuring process, follow these steps to mask the LEDs:

1. Select the **Gate** selection from the menu in the upper-left corner of the home screen.
2. Tap **Diagnose Gate**.



Figure 111 - Gate Diagnostic

3. Toggle on the **Enable Latch**.



Figure 112 - Enable latch

4. Move the gate across the area of the platform that is having issues. Yellow lines in the beam display signify the LEDs that are affected. With the latch enabled, red lines will appear next to the displayed beams, marking the affected LEDs.

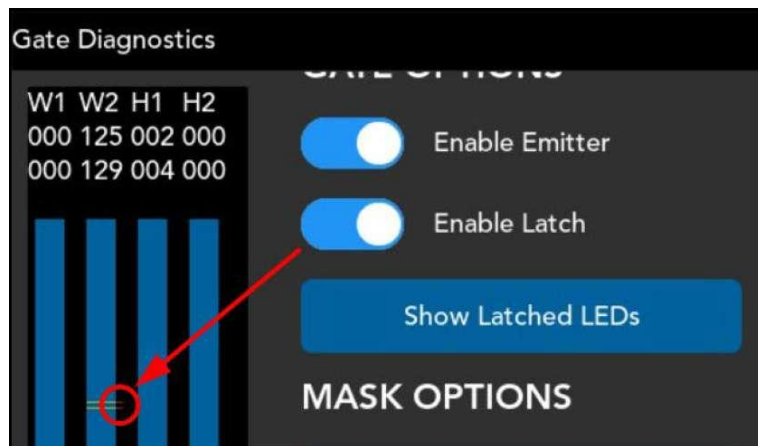


Figure 113 - Latched LEDs

5. Tap **Auto-Mask Latched LEDs** to mask the latched LEDs. Alternatively, Tap **Mask One LED** to manually enter the location of the LEDs you wish to mask. Tap **Show Latched LEDs** to find the width and height locations of the latched LEDs.



Figure 114 - Auto Mask

6. With the LEDs masked, you may begin dimensioning without the affected LEDs.

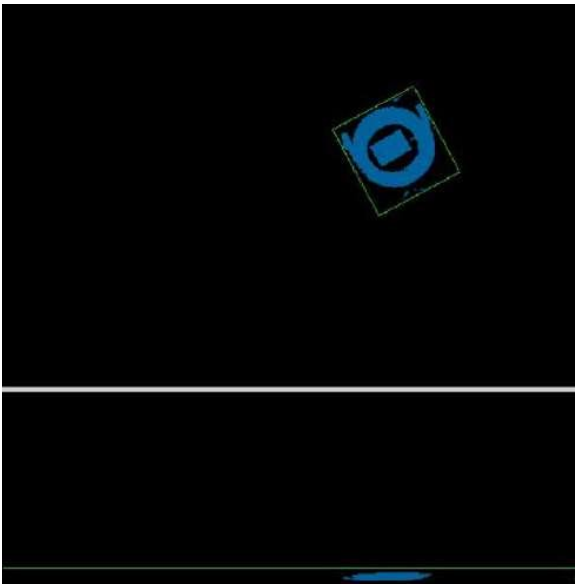


Figure 115 - Masked measurement

Gate Settings

- 1. Scroll down to the Gate Settings section. This screen displays information about the height and width boards for both the LED's and sensors.

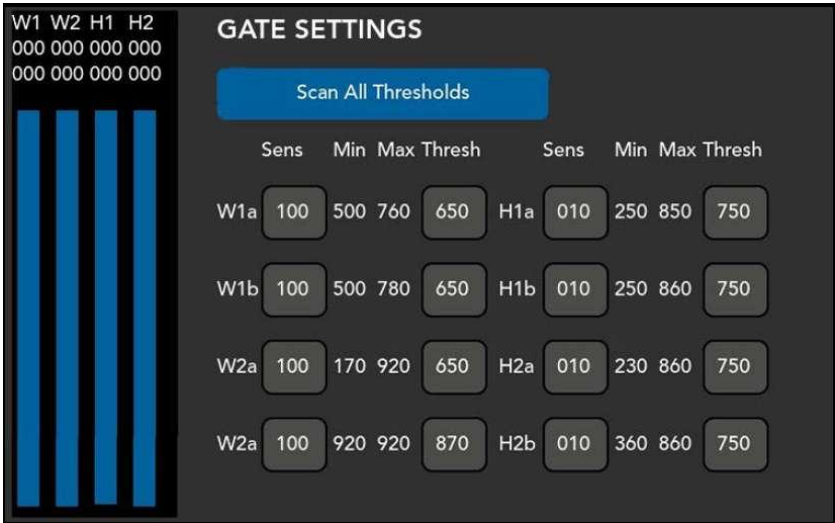


Figure 116 - Gate Settings

2. Tap Scan All Thresholds. This will scan the LED curtain to calculate new sensor thresholds. Along each of the four columns, the number values would be the same. If there is a discrepancy or if there is no response from the gate or any of its boards, contact a Cubiscan technician to help assess the problem.

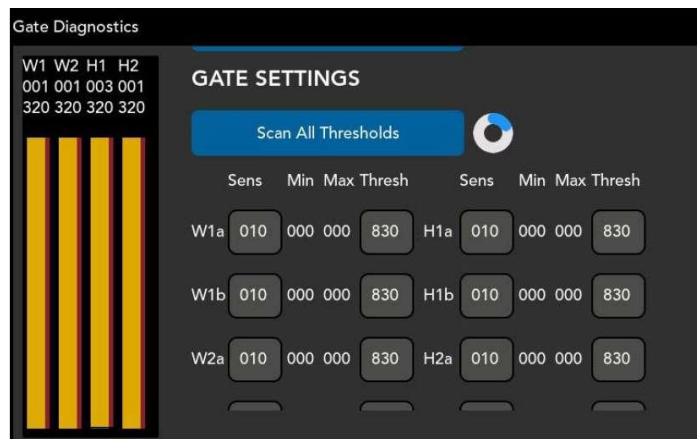


Figure 117 - Gate thresholds

APPENDIX A: PARTS LIST

Following is a list of parts that can be purchased for the Cubiscan 325v3 as spare parts or if replacement is necessary.

Part No.	Description	Quantity/Unit
10083	AC power cord	1
16084	Scale card PCB	1
12344	1/2" Diameter ball	4
13504	Infrared receive PCB	4
14507	Infrared transmit PCB	4
17195	Proximity sensor	1
16254	Load cell summing PCB	1
13411	USB to Ethernet adapter	1
13624	Calibration cube, 5" x 3" 2", black	1
14066	Leveling foot	4
17204	Touchscreen assembly (display)	1
17307	Main controller assembly	1

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17028	Load cell	4
16924	RJ45 Ethernet cable, 10 ft	1
17192	RJ45 Ethernet cable, 5 ft	1
17191	Gate power cable	1
17217	Infrared filter	4
16849	Encoder magnet	1
17328	Motion encoder	1
15200	Glass plate (with discs)	1
17196	Power supply	1