TECHNICAL REFERENCE

# PB03 Series

Industrial touchscreen monitors with HDMI + VGA video and USB capacitive touch. Five documented TC configurations from 15.6 to 27 inches.




Representative PB03 TC series appearance. Screen content is illustrative; no computer or operating system is specified.

## Choose by size and operating conditions

| Model size | Luminance | Operating temperature | Reference page |
|---|---|---|---|
| 15.6 in | 450 cd/m² | -30 to 80 °C | 2 |
| 18.5 in | 350 cd/m² | -20 to 70 °C | 3 |
| 21.5 in | 500 cd/m² | 0 to 50 °C | 4 |
| 23.8 in | 250 cd/m² | 0 to 50 °C | 5 |
| 27 in | 300 cd/m² | 0 to 50 °C | 6 |

1920 × 1080 resolution across all five models. VESA 100 × 100 mm mounting and 12 V DC input are stated in each TC V1 specification.

IP67 source reference: IP67 is referenced in the current PB03 V1 product materials. The protected area, installation requirements and applicability to the selected TC configuration must be confirmed against released technical documentation.

Source model specification version: V1. English compilation version: EN2. Mechanical release, configuration, supply scope and commercial terms remain subject to the accepted drawing and quotation.

YL-GZPB03Q156TC-V1

# 15.6-inch touchscreen monitor

Documented TC V1 configuration. Use the model-specific values below when checking the installation and system requirements.

| Display and touch | |
|---|---|
| Resolution | 1920 × 1080 |
| Luminance | 450 cd/m² |
| Contrast ratio | 800:1 |
| Viewing angle (source sequence) | 85/85/85/85 |
| Display colours | 16.2M |
| LCD response time | 25 ms |
| MTBF (source specification) | 50,000 h |
| Touch technology / interface | Capacitive touchscreen / USB, driver-free |
| Touch response / surface hardness | ≤5 ms / Mohs 7 |

| Integration and environment | |
|---|---|
| Video input / DC connector | HDMI + VGA / DC 5521 |
| Input voltage / operational power | 12 V DC / Pmax <30 W |
| Idle power | <1 W |
| Operating / storage temperature | -30 to 80 °C / -40 to 90 °C |
| Humidity | 10–90% RH |
| Construction / VESA mounting | All-aluminum profile / 100 × 100 mm |
| External dimensions | Confirm released mechanical drawing |
| Cover glass / net weight | Not specified / TBD |
| Ingress-protection reference | IP67 reference - scope confirmation required |

Specification statements: RE: EN55032 Class A. ESD: contact ±4 kV and air ±8 kV, performance criterion B. These entries do not substitute for a model-specific certificate or test report.

Source packing list: Touch monitor × 1; Power adapter × 1; Power cable 1.8 m × 1; HDMI cable 1.5 m × 1. Confirm supplied accessories in the quotation.

Source: YL-GZPB03Q156TC-V1 Touchscreen Monitor, V1, pp. 1-2. Page 1: specifications and features. Page 2: ordering, dimensions and packing. See page 7 for the evidence and drawing scope.

YL-GZPB03Q185TC-V1

# 18.5-inch touchscreen monitor

Documented TC V1 configuration. Use the model-specific values below when checking the installation and system requirements.

| Display and touch | |
|---|---|
| Resolution | 1920 × 1080 |
| Luminance | 350 cd/m² |
| Contrast ratio | 1000:1 |
| Viewing angle (source sequence) | 89/89/89/89 |
| Display colours | 16.7M |
| LCD response time | 14 ms |
| MTBF (source specification) | 50,000 h |
| Touch technology / interface | Capacitive touchscreen / USB, driver-free |
| Touch response / surface hardness | ≤5 ms / Mohs 7 |

| Integration and environment | |
|---|---|
| Video input / DC connector | HDMI + VGA / DC 5521 |
| Input voltage / operational power | 12 V DC / Pmax <30 W |
| Idle power | <1 W |
| Operating / storage temperature | -20 to 70 °C / -20 to 70 °C |
| Humidity | 10–90% RH |
| Construction / VESA mounting | All-aluminum profile / 100 × 100 mm |
| External dimensions | Confirm released mechanical drawing |
| Cover glass / net weight | 1.1 mm / TBD |
| Ingress-protection reference | IP67 reference - scope confirmation required |

Specification statements: RE: EN55032 Class A. ESD: contact ±4 kV and air ±8 kV, performance criterion B. These entries do not substitute for a model-specific certificate or test report.

Source packing list: Touch monitor × 1; Power adapter × 1; Power cable 1.8 m × 1; HDMI cable 1.5 m × 1. Confirm supplied accessories in the quotation.

Source: YL-GZPB03Q185TC-V1 Touchscreen Monitor, V1, pp. 1-2. Page 1: specifications and features. Page 2: ordering, dimensions and packing. See page 7 for the evidence and drawing scope.

YL-GZPB03Q215TC-V1

# 21.5-inch touchscreen monitor

Documented TC V1 configuration. Use the model-specific values below when checking the installation and system requirements.

| Display and touch | |
|---|---|
| Resolution | 1920 × 1080 |
| Luminance | 500 cd/m² |
| Contrast ratio | 1000:1 |
| Viewing angle (source sequence) | 89/89/89/89 |
| Display colours | 16.7M |
| LCD response time | 14 ms |
| MTBF (source specification) | 30,000 h |
| Touch technology / interface | Capacitive touchscreen / USB, driver-free |
| Touch response / surface hardness | ≤5 ms / Mohs 7 |

| Integration and environment | |
|---|---|
| Video input / DC connector | HDMI + VGA / DC 5521 |
| Input voltage / operational power | 12 V DC / Pmax =30 W |
| Idle power | <1 W |
| Operating / storage temperature | 0 to 50 °C / -20 to 60 °C |
| Humidity | 10–90% RH |
| Construction / VESA mounting | All-aluminum profile / 100 × 100 mm |
| External dimensions | 517.74 × 309.21 × 56.15 mm<br>V1 textual reference only. AC drawing identity conflict; released PB03 TC drawing required before cutout design, hole placement or enclosure fabrication. |
| Cover glass / net weight | 1.1 mm / TBD |
| Ingress-protection reference | IP67 reference - scope confirmation required |

Specification statements: RE: EN55032 Class A. ESD: contact ±4 kV and air ±8 kV, performance criterion B. These entries do not substitute for a model-specific certificate or test report.

Source packing list: Touch monitor × 1; Power adapter × 1; Power cable 1.8 m × 1; HDMI cable 1.5 m × 1; USB cable 1.5 m × 1. Confirm supplied accessories in the quotation.

Source: YL-GZPB03Q215TC-V1 Touchscreen Monitor, V1, pp. 1-2. Page 1: specifications and features. Page 2: ordering, dimensions and packing. See page 7 for the evidence and drawing scope.

YL-GZPB03Q238TC-V1

# 23.8-inch touchscreen monitor

Documented TC V1 configuration. Use the model-specific values below when checking the installation and system requirements.

| Display and touch | |
|---|---|
| Resolution | 1920 × 1080 |
| Luminance | 250 cd/m² |
| Contrast ratio | 1000:1 |
| Viewing angle (source sequence) | 89/89/89/89 |
| Display colours | 16.7M |
| LCD response time | 14 ms |
| MTBF (source specification) | 30,000 h |
| Touch technology / interface | Capacitive touchscreen / USB, driver-free |
| Touch response / surface hardness | ≤5 ms / Mohs 7 |

| Integration and environment | |
|---|---|
| Video input / DC connector | HDMI + VGA / DC 5521 |
| Input voltage / operational power | 12 V DC / Pmax <25 W |
| Idle power | <1 W |
| Operating / storage temperature | 0 to 50 °C / -20 to 60 °C |
| Humidity | 10–90% RH |
| Construction / VESA mounting | All-aluminum profile / 100 × 100 mm |
| External dimensions | Confirm released mechanical drawing |
| Cover glass / net weight | 1.1 mm / TBD |
| Ingress-protection reference | IP67 reference - scope confirmation required |

Specification statements: RE: EN55032 Class A. ESD: contact ±4 kV and air ±8 kV, performance criterion B. These entries do not substitute for a model-specific certificate or test report.

Source packing list: Touch monitor × 1; Power adapter × 1; Power cable 1.8 m × 1; HDMI cable 1.5 m × 1. Confirm supplied accessories in the quotation.

Source: YL-GZPB03Q238TC-V1 Touchscreen Monitor, V1, pp. 1-2. Page 1: specifications and features. Page 2: ordering, dimensions and packing. See page 7 for the evidence and drawing scope.

YL-GZPB03Q270TC-V1

# 27-inch touchscreen monitor

Documented TC V1 configuration. Use the model-specific values below when checking the installation and system requirements.

| Display and touch | |
|---|---|
| Resolution | 1920 × 1080 |
| Luminance | 300 cd/m² |
| Contrast ratio | 1000:1 |
| Viewing angle (source sequence) | 89/89/89/89 |
| Display colours | 16.7M |
| LCD response time | 14 ms |
| MTBF (source specification) | 30,000 h |
| Touch technology / interface | Capacitive touchscreen / USB, driver-free |
| Touch response / surface hardness | ≤5 ms / Mohs 7 |

| Integration and environment | |
|---|---|
| Video input / DC connector | HDMI + VGA / DC 5521 |
| Input voltage / operational power | 12 V DC / Pmax <30 W |
| Idle power | <1 W |
| Operating / storage temperature | 0 to 50 °C / -20 to 60 °C |
| Humidity | 10–90% RH |
| Construction / VESA mounting | All-aluminum profile / 100 × 100 mm |
| External dimensions | Confirm released mechanical drawing |
| Cover glass / net weight | Not specified / TBD |
| Ingress-protection reference | IP67 reference - scope confirmation required |

Specification statements: RE: EN55032 Class A. ESD: contact ±4 kV and air ±8 kV, performance criterion B. These entries do not substitute for a model-specific certificate or test report.

Source packing list: Touch monitor × 1; Power adapter × 1; Power cable 1.8 m × 1; HDMI cable 1.5 m × 1. Confirm supplied accessories in the quotation.

Source: YL-GZPB03Q270TC-V1 Touchscreen Monitor, V1, pp. 1-2. Page 1: specifications and features. Page 2: ordering, dimensions and packing. See page 7 for the evidence and drawing scope.

ENGINEERING HANDOVER

# Mechanical and evidence scope

Use this reference to prepare a model-specific inquiry. Confirm the released drawing and accepted configuration before enclosure fabrication or purchase.

## Mechanical information

| | |
|---|---|
| 21.5-inch external dimensions | 517.74 × 309.21 × 56.15 mm<br>V1 textual reference only |
| 15.6 / 18.5 / 23.8 / 27 inches | Source V1 requires the actual mechanical drawing. |
| All five models | VESA 100 × 100 mm; net weight TBD. |

The available drawing references an AC configuration. A released PB03 TC mechanical drawing is required before cutout design, mounting-hole placement or enclosure fabrication. The textual dimensions are retained without asserting that the drawing is released for this TC model.

## How to interpret the specification

IP67 evidence boundary. IP67 is referenced in the current PB03 V1 product materials. The protected area, installation requirements and applicability to the selected TC configuration must be confirmed against released technical documentation. The available files do not establish independent testing or certification, or protection of the rear housing, connectors, cable exits or installed machine.

Complete monitor versus LCD component. Model values come from the complete TC V1 specifications. The comparison workbook includes LCD module dimensions, weights and surface descriptions; these are not used as finished-monitor dimensions, weights or cover-glass treatments.

Source differences. The comparison workbook lists different power figures for the 15.6, 18.5, 21.5 and 23.8-inch sizes. This reference preserves the corresponding TC V1 power values. Engineering should confirm the ordered configuration.

EMC, ESD and reliability. EN55032 Class A and ESD levels are specification statements. A model-specific certificate or test report must be requested where required. MTBF is the source field name and is not a warranty or guaranteed service life.

Supply and customization. Five TC models are documented; no stock commitment, MOQ, warranty term, lead time or continuity guarantee is established. Confirm supply scope and any requested customization in the quotation.