XYCOM AUTOMATION / PRO-FACE AMERICA

product datasheet

Xycom Automation, Inc. is a subsidiary of Pro-face America, Inc.
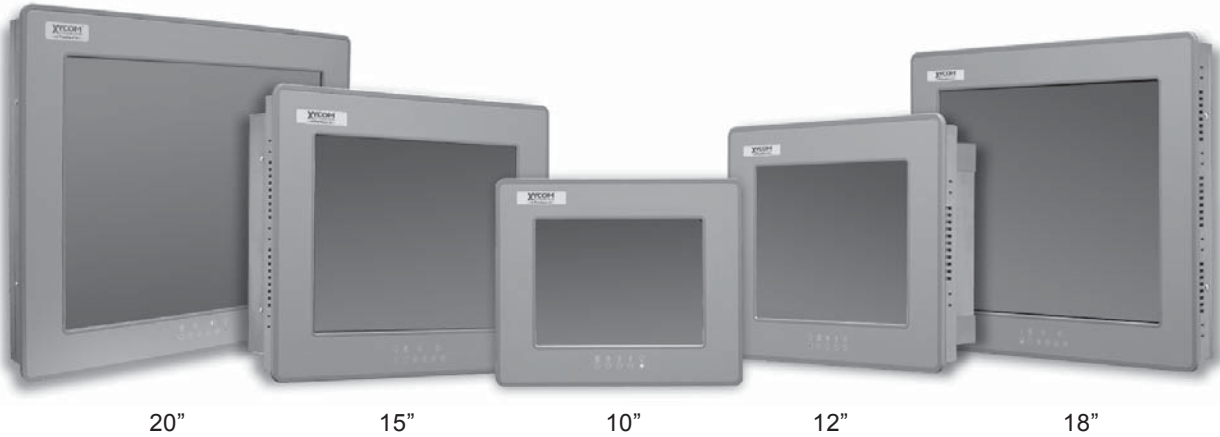
Industrial Flat Panel Monitors

DS-300001(D)

20"   15"   10"   12"   18"

Xycom Automation industrial flat panel (FP) monitors meet the rigorous requirements of the plant floor with high-resolution flat panel displays in rugged housings. They deliver crisp, bright text and graphics with a low current draw, and fit into panels that CRTs can't.

Extended Connection Distance

With cables from 10 feet to 50 feet, Xycom provides more flexibility in placing your industrial monitor on the plant floor.

Sharp, Easy-to-Read Displays

Bright TFT screens display complex operations with clarity. With individual monitor brightness ranging from 200 to 300 Nit, contrast ratios of 300:1, and wide horizontal and vertical viewing angles, our monitors offer superb viewing performance. Color ranges from 18-bit (262,144 colors) for the smaller units (10"-15") to 32-bit (16.7 million) for the 20" monitor. All models accept standard 15-pin VGA inputs (also see the section on the special features of the SXT1811 later in this document).

High-Performance Touchscreen

For applications requiring operator input, the optional analog resistive touch screen offers high resolution and durability (35 million touches). Unlike many other touch screen monitors, this touch screen option does not use an expansion slot for the controller card—only a serial port is needed. Windows® and MS-DOS® drivers are provided.

On-screen Configuration

Front panel controls and on-screen menus make monitor configuration a snap. Most models include a switch on the rear of the unit that disables the front panel controls.

Scaling

These Xycom FP monitors support several different video display modes. All models (except VT1040) support scaling so that a lower resolution image is enlarged to fill the display screen.
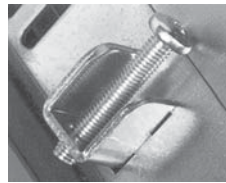
Easy Installation

All five standard monitors fit into shallow mounting areas, requiring about 3" of depth. The XT1502, SXT1811, and SXT2011 models have recessed connectors for all cabling so that no additional mounting depth is required.

FEATURES

- 10.4" to 20.1" bright, easy-to-read color TFT flat panel display with screen resolution from VGA to SXGA
- Large viewing area and viewing angles
- Operator input through an optional integrated touch screen
- Front panel controls with onscreen menus (lock switch on rear of units)
- Long-lasting backlights
- Hinged design for easy backlight replacement (VT1040 and XT1502)
- Simple mounting
- Shallow mounting depth
- Up to 50 foot cables
- 19" EIA rack-mountable
- NEMA 4/4X/12 front panel
- UL and cUL listed, CE marked
- Units ship with all necessary cables and software

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Pro-face®

Custom clips are used to secure the monitor to the panel (see right), eliminating the need to drill holes in the panel for studs.
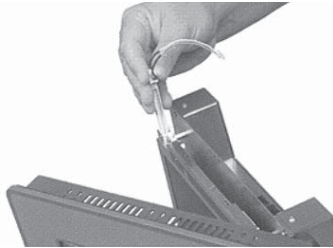
The VT1040, ST1210, and XT 1502 can be fitted with an adapter plate for a standard 19" EIA rack-mount. The SXT1811 has a custom front panel bezel instead of an adapter plate.

Long-Life Backlights and Backlight Replacement

All Xycom FP monitor models come standard with long-life backlights, 50,000 hours typical.

The VT1040, ST1210, and XT1502 models are designed with field replacement of backlights in mind. These three models have thumbscrews on the back to facilitate opening the units for cleaning or backlight replacement. The ST1210 model has four thumbscrews and a back panel that lifts off the unit, but the VT1040 and the XT1502 models are even more convenient. They employ a special hinged design (see right) with two thumbscrews to make access even easier.

SXT1811 Special Features

The SXT1811 has several unique features in addition to the standard features already outlined. This FP monitor can accept composite video, component video, S-video, NTSC, and PAL/SECAM inputs. It can also display picture in picture. Finally, the SXT1811 comes with a high-quality scaling engine and supports vertical refresh rates as high as 85 Hz.

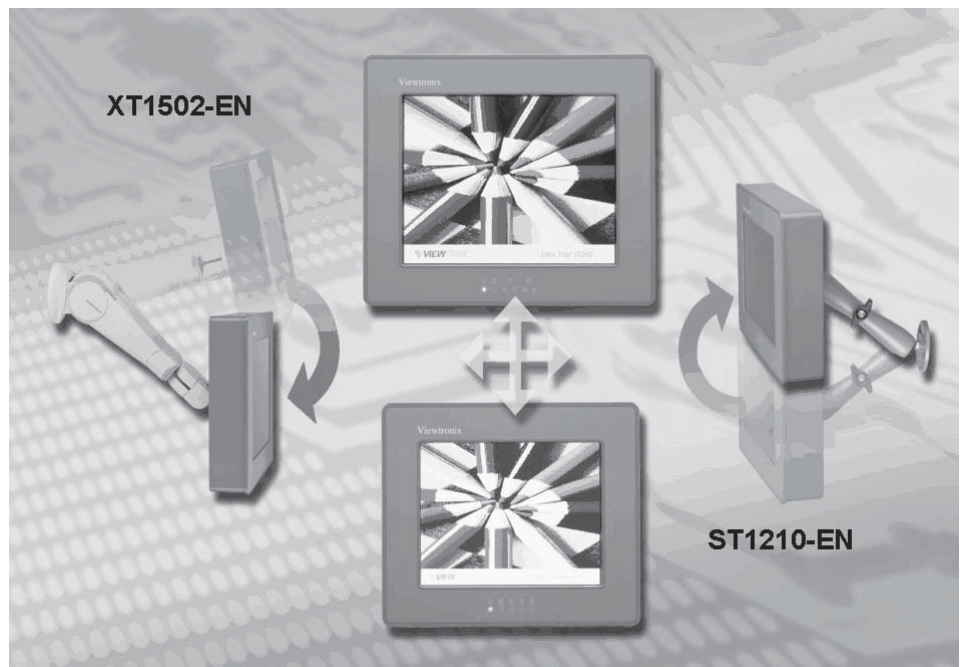## Other Xycom and Pro-face Flat Panel Monitor Offerings

Xycom sells other FP monitors in addition to the line of monitors described in this datasheet, specifically the 5000 series. The KPM(T) FP monitors [5012KPM(T) and 5015KPM(T)] come with either 12.1" or 15" TFT LCD displays, and are equipped with full alphanummeric membrane keyboards, Interlink Versa point pointing devices and optional analog resistive touch screens. The 5015T 15" XGA (1024x768) monitor and 5017T 17" SXGA (1280 x 1024) monitor both come with touch screen operator input. All of the 5000 series FP monitors have NEMA 4/4X/12 front panels, and are mounted using simple mounting clips. These monitors are UL508 Listed, CE compliant and UL approved for use in Class I & II, Division 2 Hazardous Locations.

Xycom also offers a line of Pro-face flat panel TFT monitors. The FP2000 Series offers the 10.4" VGA 640x480 FP-2500T and the 12.1" SVGA 800x600 FP-2600T. This series features identical cutout sizes, NEMA 4/4X/12 front panels, 18-bit color (262,144 colors), 50,000 hour user-replaceable backlights, analog resistive touch screens, and a 2.28" mounting depth. The 14.1" XGA (1024x768) FP-790T is similar, but has a 30,000 hour backlight, an IP65 front panel, and a 3.0" mounting depth.

For more information on these and other Xycom FP monitor offerings, consult our website at www.xycom.com.

12" AND 15" ENCLOSED UNITS FOR SWING ARM MOUNTING

The ST1210 and XT1502 models have an optional metal back cover to fully enclose the unit (the -EN ordering option). These units are designed for freestanding applications and are intended to be mounted on a standard 75mm VESA pendent or swing arm such as the popular Ergotron® 400 series.

XT1502-EN

ST1210-EN

DISPLAY SPECIFICATIONS

	VT1040	ST1210	XT1502
Display Size (diagonal)/ Active Area (H x V)	10.4"/8.32" x 6.24"	12.1"/9.69" x 7.26"	15.0"/11.97" x 8.98"
Resolution (1 pixel = R+G+B dots)	VGA: 640x480	SVGA: 800x600	XGA: 1024x768
Scaling	No	No	Yes
Brightness	300 Nit	250 Nit	200 Nit
Contrast Ratio	300:1	300:1	300:1
Color Density	262,144 colors	262,144 colors	262,144 color
Horizontal Viewing Angle	120°	140°	120°
Vertical Viewing Angle	100°	110°	130°
Backlight Life	50,000 hours	50,000 hours	50,000 hours
Field Replace Bulbs?	Yes	Yes	Yes

	SXT1811	SXT2011
Display Size (diagonal)/ Active Area (H x V)	18.1"/14.134" x 11.307"	20.1"/15.72" x 12.58"
Resolution	SXGA: 1280x1024	SXGA: 1280x1024
Scaling	Yes	Yes
Brightness	235 Nit	250 Nit
Contrast Ratio	300:1	300:1
Color Density	16.7 million colors	16.7 million colors
Horizontal Viewing Angle	160°	170°
Vertical Viewing Angle	160°	170°
Backlight Life	50,000 hours	50,000 hours
Field Replace Bulbs	No	No

GENERAL SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C [a]	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz	0.006″ peak to peak displacement 1.0g maximum acceleration	0.015″ peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] The thermal values for the enclosure versions of the ST1210 and XT1502 units are 0°C to 45°C.
[b] Consistent with internal component specifications

Electrical

	VT1040, ST1210, XT1502	SXT1811, SXT2011
AC Power	100-240 VAC, 1.0 A max, 50/60 Hz	100-240 VAC, 1.0 A max, 50/60 Hz
DC Power	15-28 VDC, 1.0 A max.	18-36 VDC, 3.3 A max.

Front Panel

▪ NEMA 4/4X/12 (not applicable to enclosure versions of the ST1210 and XT1502 units)

Regulatory Compliance

CE

▪ EN 55022: Class A
▪ EN 61000-6-2
▪ EN 60950

FCC

▪ 47 CFR, Part 15, Class A
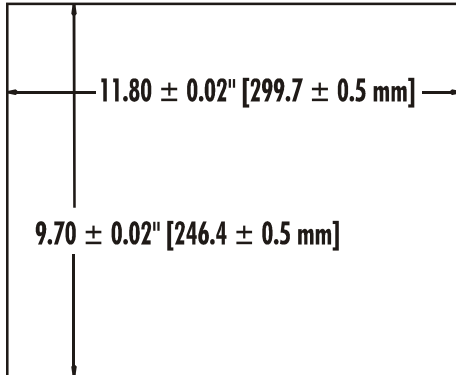
Safety Agency Approvals

UL

▪ UL 508 Listed
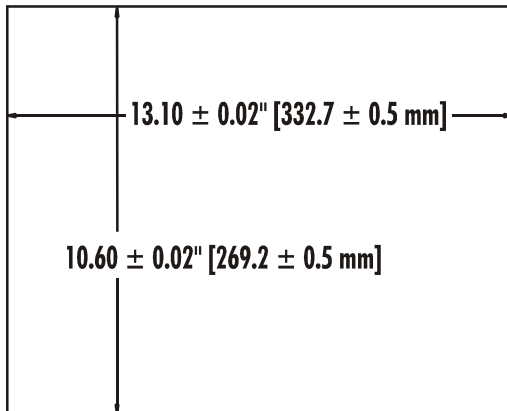
cUL

▪ CSA-C22.2, #142 Listed

VT1040 Mounting

11.80 ± 0.02" [299.7 ± 0.5 mm]

9.70 ± 0.02" [246.4 ± 0.5 mm]

VT1040 Product Dimensions

	VT1040
Height	10.50″ (266.7 mm)
Width	12.60″ (320.0 mm)
Depth	3.25″ (82.6 mm)
Mounting Depth [1]	3.00″ (76.2 mm)
Weight	10 lbs. (4.5 kg)

[1] Leave at least an additional 2.5″ for power cords and cables attached to the back of the unit.
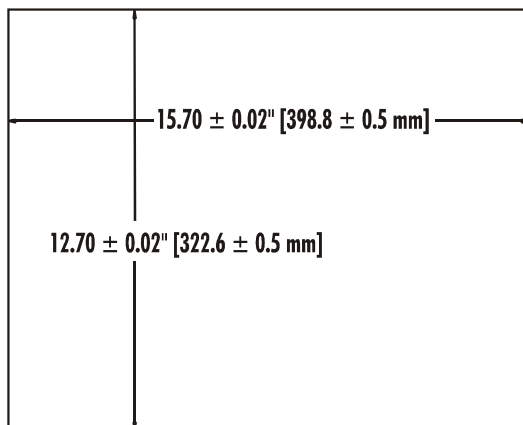
ST1210 Mounting

13.10 ± 0.02" [332.7 ± 0.5 mm]

10.60 ± 0.02" [269.2 ± 0.5 mm]

ST1210 Product Dimensions

	ST1210	ST1210-EN [2]
Height	11.45″ (290.8 mm)	11.45″ (290.8 mm)
Width	13.87″ (352.3 mm)	13.87″ (352.3 mm)
Depth	3.25″ (82.6 mm)	2.93″ (74.4 mm)
Mounting Depth	3.00″ (76.2 mm) [1]	N/A
Weight	13 lbs. (5.9 kg)	15 lbs. (6.8 kg)

[1] Leave at least an additional 2.5″ for power cords and cables attached to the back of the unit.

[2] Enclosed units are designed to be mounted on industry standard 75 mm VESA pendent or swing arm mounts. This requires four 10-32 x 3/8 screws.
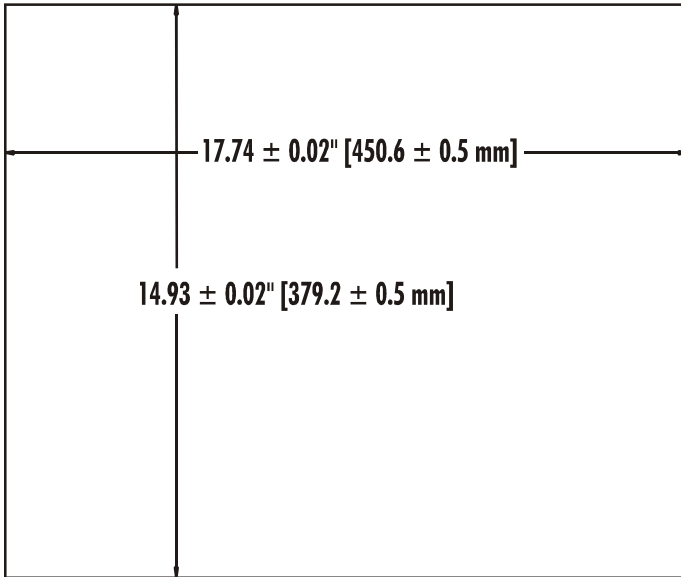
XT1502 Mounting

15.70 ± 0.02" [398.8 ± 0.5 mm]

12.70 ± 0.02" [322.6 ± 0.5 mm]

XT1502 Product Dimensions

	XT1502	XT1502-EN [1]
Height	13.48″ (342.4 mm)	13.48″ (342.4 mm)
Width	16.48″ (418.6 mm)	16.48″ (418.6 mm)
Depth	3.25″ (82.6 mm)	3.18″ (80.8 mm)
Mounting Depth	3.00″ (76.2 mm)	N/A
Weight	16 lbs. (7.3 kg)	19 lbs. (8.6 kg)

[1] Enclosed units are designed to be mounted on industry standard 75 mm VESA pendent or swing arm mounts. This requires six 10-32 x 3/8 screws.
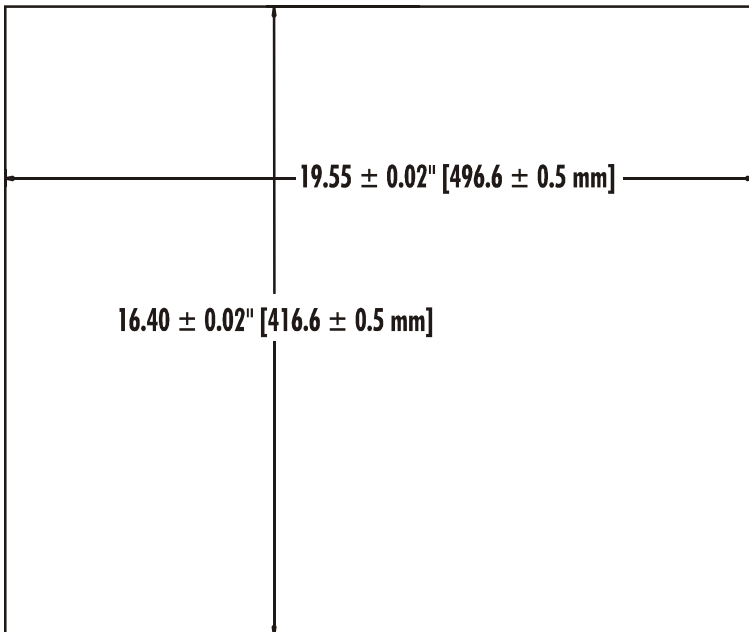
SXT1811 Mounting

17.74 ± 0.02" [450.6 ± 0.5 mm]

14.93 ± 0.02" [379.2 ± 0.5 mm]

SXT1811 Product Dimensions

	SXT1811
Height	15.70″ (398.8 mm)
Width	18.51″ (470.2 mm)
Depth	3.73″ (94.7 mm)
Mounting Depth	3.48″ (88.4 mm)
Weight	21.5 lbs. (9.8 kg)

SXT2011 Mounting

19.55 ± 0.02" [496.6 ± 0.5 mm]

16.40 ± 0.02" [416.6 ± 0.5 mm]

SXT2011 Product Dimensions

	SXT2011
Height	17.18″ (436.4 mm)
Width	20.32″ (516.1 mm)
Depth	3.90″ (90.1 mm)
Mounting Depth	3.65″ (92.7 mm)
Weight	21.5 lbs. (9.8 kg)

ORDERING INFORMATION

Standard Configurations

These are the default configurations for the different monitors. Use the configurators on the next page to determine ordering numbers for any available options.

Example Order Number	Description
VT1040	10.4″ VGA NEMA 4/4X/12 TFT color industrial monitor. Supports resolutions up to 640x480 with 262,144 colors. Features include quick access design for easy backlight replacement, front panel controls with onscreen menus, a bright 300 Nit display, and 50,000 hour backlights. Includes AC line cord and 10′ video cable (3000-CBL-10V).
VT1040T-A	VT1040 with antiglare resistive touchscreen and serial RS-232 controller. Includes software and 10′ touchscreen cable (CBL-SER10MF).
ST1210	12.1″ SVGA NEMA 4/4X/12 TFT color industrial monitor. Supports resolutions up to 800x600 with 262,144 colors. Features include quick access design for easy backlight replacement, front panel controls with onscreen menus, a bright 250 Nit display, and 50,000 hour backlights. Includes AC line cord and 10′ video cable (3000-CBL-10V).
ST1210T-A	ST1210 with antiglare resistive touchscreen and serial RS-232 controller. Includes software and 10′ touchscreen cable (CBL-SER10MF).
ST1210T-A-EN [1]	ST1210T-A with fully enclosed back cover suitable for pendent or swing arm mounting.
XT1502	15.0″ XGA NEMA 4/4X/12 TFT color industrial monitor. Supports resolutions up to 1024x768 with 262,144 colors. Features include quick access design for easy backlight replacement, front panel controls with onscreen menus, a bright 200 Nit display, and 50,000 hour backlights. Includes AC line cord and 10′ video cable (3000-CBL-10V).
XT1502T-A	XT1502 with antiglare resistive touchscreen and serial RS-232 controller. Includes software and 10′ touchscreen cable (CBL-SER10MF).
XT1502T-A-EN [1]	XT1502T-A with fully enclosed back cover suitable for pendent or swing arm mounting.
SXT1811	18.1″ SXGA NEMA 4/4X/12 TFT color industrial monitor. Supports resolutions up to 1280x1024 with 16.7 million colors. Features include front panel controls with onscreen menus, a bright 235 Nit display, and 50,000 hour backlights. Includes AC line cord and 10′ video cable (3000-CBL-10V).
SXT1811T-A	SXT1811 with antiglare resistive touchscreen and serial RS-232 controller. Includes software and 10′ touchscreen cable (CBL-SER10MF).
SXT2011	20.1″ SXGA NEMA 4/4X/12 TFT color industrial monitor. Supports resolutions up to 1280x1024 with 16.7 million colors. Features include front panel controls with onscreen menus, a bright 250 Nit display, and 50,000 hour backlights. Includes AC line cord and 10′ video cable (3000-CBL-10V).
SXT2011T-A	SXT2011 with antiglare resistive touchscreen and serial RS-232 controller. Includes software and 10′ touchscreen cable (CBL-SER10MF).

[1] The enclosure does not have a NEMA 4/4X/12 rating.

Accessories (ordered separately)

Order Number	Description
MTG-RM1040	Adapter plate for mounting VT1040 in 19″ rack; panel height is 12.25″ (7U).
MTG-RM1210	Adapter plate for mounting ST1210 in 19″ rack; panel height is 12.25″ (7U).
MTG-RM1500	Adapter plate for mounting XT1502 in 19″ rack; panel height is 14.00″ (8U).
3000-CBL-10V	10′ (3 m) coaxial VGA cable [male-male]; connects monitor to a standard VGA card.
3000-CBL-25V	25′ (7.5 m) coaxial VGA cable [male-male]; connects monitor to a standard VGA card.
3000-CBL-50V	50′ (15 m) coaxial VGA cable [male-male]; connects monitor to a standard VGA card.
CBL-SER10MF	10′ (3 m) serial touchscreen cable; connects monitor to standard 9-pin RS-232 port.
CBL-SER25MF	25′ (7.5 m) serial touchscreen cable; connects monitor to standard 9-pin RS-232 port.
CBL-SER50MF	50′ (15 m) serial touchscreen cable; connects monitor to standard 9-pin RS-232 port.

Flat Panel Monitors, 10" through 15"

Standard Configurations
VT1040
ST1210
XT1502

Resolution and Display Size
VT1040VGA (640x480), 10.4″
ST1210SVGA (800x600), 12.1″
XT1502XGA (1024x768), 15″

Touchscreen
blank   No touchscreen
T-A   Resistive antiglare touchscreen

Power Supply
blank   AC power supply [a]
-24   24V DC power supply [b]

Bezel
blank   Painted aluminum
-S   Stainless steel [c]

Enclosure
blank   No enclosure
-EN   Fully enclosed back cover (ST1210, XT1502 only)[a]

[a] Not available with stainless bezel option.
[b] Not currently available on enclosed monitors.
[c] Not currently available with ST1210 monitor.

Flat Panel Monitors, 18" through 20"

Standard Configurations
SXT1811
SXT2011

Resolution and Display Size
SXT1811 SXGA (1280x1024), 18.1″
SXT2011 SXGA (1280x1024), 20.1″

Touchscreen
blank   No touchscreen
T-A   Resistive antiglare touchscreen

Power Supply
blank   AC power supply
-24   24V DC power supply

Bezel
blank   Brushed aluminum
-S   Stainless steel [a]
-R   Special 19″ Rackmount bezel (SXT1811 only)

[a] Not currently available with SXT2011 monitor.