

# Sharp MultiSync® P656 LCD 65" Professional Large Format Display

## **Datasheet**





## Precision performance for critical applications

When reliability, security, and exceptional visual performance are mandatory, the Sharp MultiSync® P6 Series delivers with precision and resilience. Engineered for mission-critical applications and highend signage, the P6 Series combines robust durability with advanced visual technologies to meet the most demanding commercial needs. With 700 cd/m² brightness, a high-haze panel, and SpectraView<sup>TM</sup> Engine, it delivers outstanding image clarity and colour accuracy even in challenging lighting conditions. Despite its slim profile, the P6 Series is endorsed for use in heavy traffic spaces with a durable all-metal chassis that complies to the strictest fire safety standards.

Building on NEC's trusted heritage, the next generation Sharp P6 Series is designed for longevity and integration flexibility. Its modular architecture supports custom computing options by Intel® SDM or Raspberry Pi, and flexible connectivity including AVoverIP for versatile deployments. Native video daisy chaining via HDMI and DisplayPort enables content to be easily cloned or expanded across multiple displays. Compatibility with leading platforms such as Crestron, Cisco Webex, and Q-Sys enhances its future-proof appeal, while 802.1x LAN support safeguards robust security against cyber threats. Purpose-designed for control rooms, passenger information, and prestige retail or corporate signage, the P6 Series delivers uncompromising performance, day after day.

## **Benefits**

Enhanced imaging precision - when brand consistency and corporate identity are important, NEC's

SpectraView Engine provides full control over colour, gamma, and uniformity for accurate and impactful content.

**Unhindered readability** – a high-haze panel reduces glare from windows and ambient light, keeping signage content and presentations clear for uninterrupted viewing in any environment

**Security assured** – 802.2x support over LAN enables high-level security for corporate networks, giving peace of mind for IT teams and enterprise environments.

**Mission-critical performance** – with 700 cd/m² brightness, long-life components and robust flame-resistant metal chassis, the P6 series is engineered to deliver lasting clarity and durability in challenging environments without the need for bulky housings.

**Trusted integration** – full compatibility with major AV ecosystems, including Crestron XiO Cloud and NVX, Q-Sys, Cisco Webex, Matrox IPMX, and CMS solutions, ensures seamless setup and scalability.

#### **Product Information**

Product Name	Sharp MultiSync® P656
Model	PN-P656
Product Group	LCD 65" Professional Large Format Display
Order Code	60006061

#### Display

Panel Technology	ÎPS with Direct LED backlights
Active Screen Area (W x H) [mm]	1,428.5 x 803.5
Screen Size [inch/cm]	64.5 / 163.9
Aspect Ratio	16:9
Pixel Pitch [mm]	0.372
Brightness [cd/m²]	700
Contrast Ratio	≥ 8000:1 <sup>1</sup>
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	1.073 (10bit)
Colour Gamut	92% of DCI
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (25)
Supported Orientation	Face Down; Face Up <sup>2</sup> ; Landscape; Portrait

#### Resolution

Supported Resolutions	1024 x 768;	1366 x 768;	1920 x 1200;	720 x 400;
	1270 x 720;	1400 x 1050;	1920 x 1200;	720 x 480;
	1280 x 1024;	1440 x 900;	1920 x 2160;	720 x 576;
	1280 x 720;	1600 x 1200;	3840 x 2160;	800 x 600
	1280 x 800;	1680 x 1050;	4096 x 2160;	
	1360 x 768;	1920 x 1080;	640 x 480;	

## **Synchronisation Rate**

Horizontal Frequency	15 - 135
[kHz]	
Vertical Frequency [Hz]	23 - 76

## Connectivity

HDMI IN 1	Video Input; UHD (60 Hz) HDCP (2.2); Audio Input; ARC; CEC	
HDMI IN 2	Video Input; UHD (60 Hz) HDCP (2.2); Audio Input; CEC	
HDMI OUT	Video Output; UHD (60 Hz) HDCP (2.2); Audio Output; Loop Through: HDMI IN 2, Option, Compute module	
DP IN 1	Video Input; UHD (60 Hz) DP 1.2; HDCP (2.2); Audio Input	
DP OUT	Video Output; UHD (60 Hz) DP 1.2; HDCP (2.2); Audio Output; Loop Through: DisplayPort IN, USB-C 2	
USB-A 1	USB (2.0 / 3.2); 4.5 W; Peripherals; USB Storage	
USB-A (Service)	2.5 W; Service	
USB-C 1	Video Input; UHD (60 Hz); DP alt. 1.2; HDCP (2.2); Audio Input; USB 2.0 / 3.2; 65 W	
USB-C 2	USB 2.0 / 3.2; 7.5 W; Peripherals; Storage	
Audio Output (3.5 mm)	Audio Output; Line Out	
LAN 1	100 MBit/s	
LAN 2	Loop Through: LAN 1, RS-232C, IR; 100 MBit/s	
RS-232C	9600 bps	
Remote In (3.5 mm)	Eco Sensor (IR-Extender, Ambient and Presence)	
Input Detect	Custom; Last; First	
PiP / PbP	2-Split; Scalable picture size	

## Calibration

Factory Calibration	Gamma; Intensity; RGB; Uniformity; White Point	
Calibration with Software	ith Corner Uniformity; Gamma; Intensity; RGB; Update Factory Calibration; White Point	
Calibration Software	Display Wall Calibrator	

# **Open Modular Intelligence**

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 66 W	
Compute Module Slot	MPi4 and MPi5 Kit (powered by Raspberry Pi)	
Sensors		
Ambient Light Sensor	Integrated, triggered actions programmable	
Human Sensor	optional via Eco Sensor (KTES1)	
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable	
Electrical		
Power Consumption [W]	160 shipping	
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)	
Power Management	VESA DPMS	
Power Supply	100-240 V AC; 50/60 Hz; internal	
Environmental Cond	itions	
Operating Temperature [°C]	+0 to +40	
Operating Humidity [%]	20 to 80	
Storage Humidity [%]	10 to 80	
Storage Temperature [°C]	-20 to 60	
Mechanical		
Dimensions (W x H x D) [mm]	1,454.5 x 832.4 x 59.5	
Weight [kg]	26	
Bezel Width [mm]	11 (left, right and top); 13.9 (bottom)	
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); M6	
Ingress Protection	IP5x (front); IP2x (back)	
Packaging Dimensions (W x H x D) [mm]	1,620 x 950 x 185	
Packaging Weight [kg]	35	
Material	Metal	

**Available Options** 

Accessories	Eco Sensor (KTES1); Feet (ST-65M); Remote control kit (KTRC3); Soundbar (PN-ZCMS1); Speaker (SP-RM3a); Trolley (PD04 Tipster, L20PNSR780MEU); USB-C cable (USB-C 5M, USB-C 7M); Wall mount (PDW S 32-65 L, PDW S 32-65 P, L20PNWALL90EU, PDW T XL-2)
Regulatory	
Safety and Fragmomics	CE: FMC Class R: Energy Star R: FCC Class R: REACH: RoHS: LIKCA: LIL /C-

Safety and Ergonomics	UL or CSA
Pixel Failure Class	ISO 9241-307, Class 1
Resistance to Fire	Metal backcover, plastic material certified acc. to UL94-5VB

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Ecological Standards EnergyStar 8.0

## **3rd Party Certifications**

Crestron	Certified for Crestron CCV2 and XiO Cloud

### **Additional Features**

Special Characteristics	CEC Support; Clone Settings; DICOM Simulation; HDMI ARC; Scheduler	
Audio	Integrated Speakers (10 W + 10 W)	
Shipping Content	2x AAA batteries; Display; HDMI Cable; Power Cable; Remote Control; Setup Manual	
Warranty	3 years warranty incl. backlight; additional services available; optional 4. $\pm$ 5. year warranty extension $^3$	
Operating Hours	24/7	
External Control	AMX NetLinx Support; Crestron V2; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP	
Remote Management	NaViSet Administrator 2	
Security	Disable HW Buttons; Disable IR Functionality; Emergency Notification; IEEE802.1X (LAN)	

 $<sup>^{\</sup>mathrm{1}}$  out of the box conditions, local dimming ON

 $<sup>^{2}</sup>$  adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

<sup>&</sup>lt;sup>3</sup> please refer to terms and conditions of warranty extensions





CE



FCC Class B

RoHS

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