

## miniSCADA visualization solution

### DESCRIPTION

Woodward's easYview is a family of visualization touch-panels designed for system level visualization. It is customized to provide users a miniSCADA visualization solution for a fleet of gensets controlled by Woodward power management controllers. It is particularly useful for switchgear builders, genset packagers and system integrators as an off-the-shelf HMI option for any application where a secure remote control, monitoring, and visualization are desired such as hospitals, data centers, offshore rigs, landfill, rental, and wastewater gas-to-power applications to name a few.

easYview is available in three display sizes keeping the digital core constant but expanding the touch display from small (7") and medium (10") to large (15") screens. Combined with a versatile atvise® SCADA software tool, it makes an excellent multi-device visualization system as device connections (easYgen-XT family and LS-6XT to start with) are already made and data structure is already set-up to help minimize your engineering effort while providing flexibility that is expected from a scalable platform. VNC is supported across the easYview family for detailed connection to single controllers making it ideal not only for commissioning and troubleshooting your PowerGen assets but also for operating and maintaining them later. Additionally, extended operating temperature range combined with strict ingress protection, wide viewing angle, anti-glare treatment and strong Luminance makes it as good for outdoor use as for indoor installations.

### Features

- Off-the-shelf easYview supports two operation modes,
  - miniSCADA – multiple easYgen-XT and/or LS-6XT connects via Modbus TCP connection. Data structure prepared for a total 6 devices (3x easYgen-XT and 3x LS-6XT).
  - remoteHMI – VNC connection to single controllers. Depending upon the easYview screen size (7', 10' or 15'), 1, 2 or 4 different remote HMI screens can be shown simultaneously
- Engineered to achieve a range of customizations using tunables and online keyboard
- Further customization using atvise® SCADA tool under password protection (see AN#37949)
- PC mode to free the license from easYview Hardware and perform customizations using a PC
- VNC connection also supported in miniSCADA mode for detailed visualization of single controllers
- Possible to connect multiple easYview to single controllers in remoteHMI mode
- List of available devices in network with a search filter option
- Auto connection setting to the last connected device(s)
- Customizable remoteHMI connection in full mode, annunciator mode or deactivate
- Neutral bezel and field replaceable Logos for customer branding (see AN#37946)
- Multi-lingual remoteHMI screens of the connected controller

- Engineered for Woodward Power Management controls to save on field engineering
- Two operation modes:
  1. miniSCADA: connect multiple controllers to visualize system level performance
  2. remoteHMI: detail connections to single controllers
- Connect one easYview to many controllers in miniSCADA mode or one controller to many easYview in remoteHMI mode
- Achieve considerable customizations by tunables only
- Full customization using a versatile atvise® SCADA tool
- Offers on-the-fly configuration with same security levels as the connected control
- Simplifies wiring to the access door and keeps high voltage connections remote
- Ethernet communication to the connected control
- Personalization by end user
- CE Marked, UL Listed

# SPECIFICATIONS

**Power supply** 24 Vdc  $\pm$  20%  
 Intrinsic consumption ..... typical 9 W; maximum 21W  
 Ambient temperature (operation).....-20 to 60 °C (-4 to 140 °F)  
 Ambient temperature (storage).....-30 to 70 °C (-22 to 158 °F)  
 Ambient humidity .....95% RH@40 °C, non-condensing

**Housing** Front panel and VESA mounting  
 ...Die-cast aluminum alloy front bezel Metal Shell

Front .....true-flat insulating surface  
 Weight ... 7": 2kg (4.44lb), 10": 3.9kg (8.63lb), 15": 4.1kg (13.15lb)  
 Sealing Front ..... IP66 (with clamp fastening)  
 Connection (power supply)..... screw/plug terminals 1.5 mm<sup>2</sup>  
 Interface (others not used) ..... Ethernet

## System Hardware

CPU .....NXP® ARM® Cortex™-A53 i-MX 8M  
 ..... Mini quad-core 1.6 GHz processor  
 Backup Memory..... FRAM 1 MB  
 Memory..... Quad core: 2 GB DDR4 RAM  
 Storage ..... 16GB eMMC

## Software

Operating System ..... Linux  
 Application ..... miniSCADA: atvise@  
 ..... remoteHMI: VNC

## Display

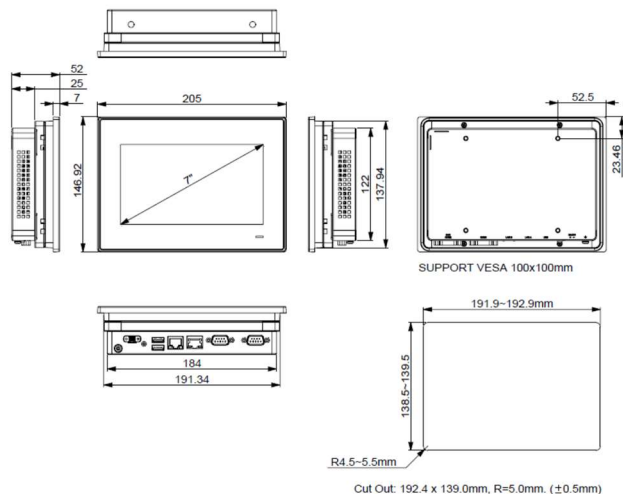
Type..... P-CAP TFT LCD  
 Max. Colors..... 16M  
 Viewing Angle (H/V) ..... 170/170  
 Backlight Life ..... LED; 50,000 h  
 Brightness adjustable ..... yes  
 Treatment..... Anti-glare  
 Contrast Ratio ..... 800:1

## Touch Screen

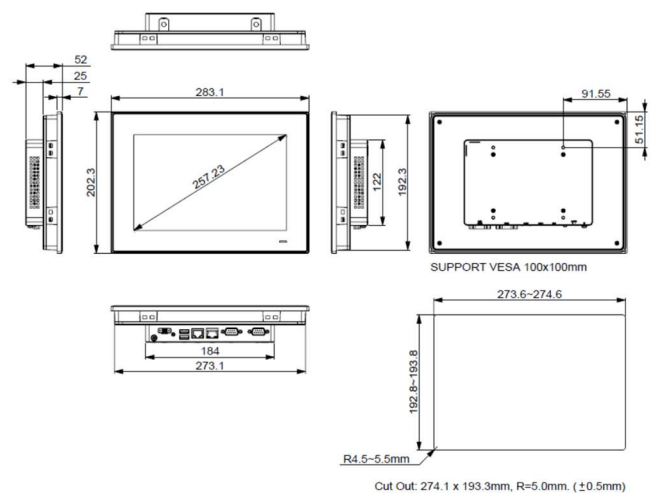
Touch points ..... 10 Points  
 Light ..... Transmission Above 85%  
 Pencil hardness .....  $\geq$ 7H  
 Vibration protection ..... Operating, random vibration 2 Grms (5 to 500 Hz)  
 Shock protection ..... 10G shock under 11ms operation  
**Disturbance test (CE)**..... tested according to applicable EN guidelines  
**Listings** ..... CE, UL, FCC Class A

# DIMENSIONS (in mm)

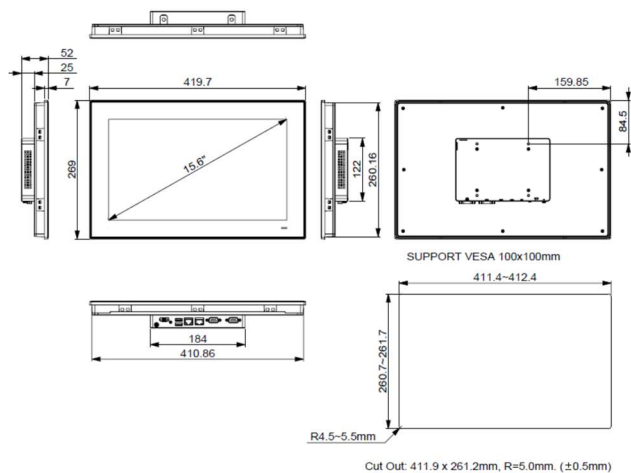
## easYview-07-030



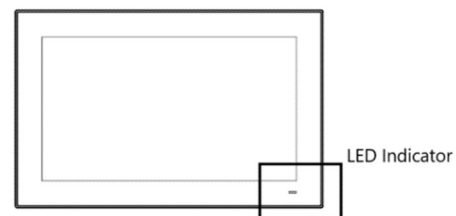
## easYview-10-060



## easYview-15-150



## LED Indicator



Off – “dark”  
 ON – “Blue”  
 Standby – “Orange”

## TERMINAL DIAGRAM



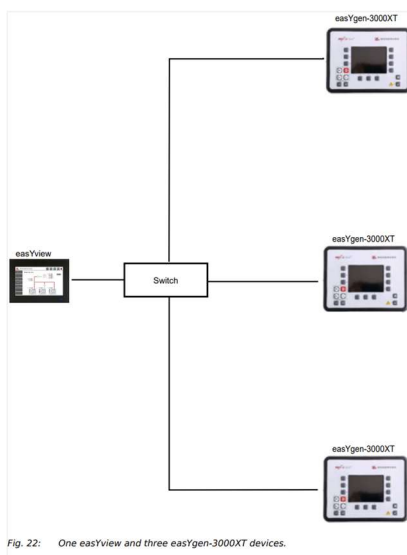
Only Power Input and LAN A are used for easYview

Other interfaces are not used for easYview applications.

### Power Input terminal:

Low voltage / Limited Energy power source

## APPLICATION OVERVIEW



The easYview comes prepared with two basic application modes: a remoteHMI mode and a miniSCADA mode.

- In the remoteHMI mode, the easYview connects to one or more devices via VNC connection and receives the remote HMI screens of the connected easYgen-XT or LS-6XT devices. Depending upon the easYview screen size (7', 10' or 15'), 1, 2 or 4 different remote HMI screens can be shown simultaneously. This mode is suitable for detailed connection to a single controller and helps troubleshoot, commission, parametrize, Alarm/event log etc.
- In the miniSCADA mode, the easYview connects to multiple easYgen-XT or LS-6XT devices via Modbus TCP connection and offers a plant level visualization. This mode is designed to keep operators informed during regular operation and maintenance to visualize most frequent / favorite values often from system perspective without going into details. The miniSCADA mode also has a built-in remoteHMI capability.

Off-the-shelf easYview comes prepared with 3 easYgen-3000XT controllers in island or utility parallel operation. Tunables are available for customizations such as, deleting an easYgen, changing color of live bus bar, changing utility source data etc. However, for any major customization such as adding an easYgen-XT, LS-6XT or 3rd party device, adjusting single line diagram, etc, an atvise® Builder tool is required.

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## FEATURES OVERVIEW

			
Model	easYview-07-030	easYview-10-060	easYview-15-150
<b>HMI</b>			
Display type	WSVGA TFT LCD	WXGA TFT LCD	FHD TFT LCD
Display size	7"	10.1"	15.6"
Max. resolution	1024 x 600	1280 x 800	1920 x 1080
Luminance (cd/m <sup>2</sup> )	425	500	450
<b>miniSCADA</b>			
Concurrent connected data points (CCD)	30	60	150
Mirror nodes	1500		
Built-in support (#easYgen-XT / #LS-6XT) *1	3/3		
<b>remoteHMI</b>			
# Simultaneous remoteHMI connection (sum easYgen-XT and LS-6XT)	1	2	4
Cascaded remoteHMI <sup>2</sup>	✓		
Based on VNC	✓		
Switch application modes (miniSCADA / remoteHMI)	✓		
<b>Listings/Approvals</b>			
UL Listing	✓		
FCC Class A	✓		
CE Marked	✓		
<b>Hardware</b> P/N:			
Plastic housing with Die-cast aluminum alloy front bezel and display (front panel / VESA mounting)	8446-1071	8446-1072	8446-1073
Mounting KIT with 10 clamps and screws (This is spare part, one kit delivered with the unit for fastening)	10-052-842		

\*1 No Tool but only configuration required for up to 3 easYgen-XT support. Further eaYgen-XTs and/or LS-6XT requires minor adjustments with advise builder tool. Standard license supports any combination of up to 3 devices (eg. 2x easYgen-XT + 1x LS-6XT, 3x easYgen-XT, etc.)

\*2 One easYview (master) establishes connection with up to 5 controllers (running VNC server). Up to 9 easYview (slave) connects to easYview (master). The remote HMI screens can be same or different on master and slave easYview.

### Related Products

- Genset control **easYgen-3100XT/3200XT-P1** Product Specification (# 37582)
- Genset control **easYgen-3400XT/3500XT-P1/P2** Product Specification (# 37583)
- Circuit breaker control **easYgen | LS-6XT** Product Specification (# 37913)

### Product Documentation

- easYview Technical Manual (# 37945)
- Genset control **easYgen-3100XT/3200XT-P1** Technical Manual (# 37574)
- Genset control **easYgen-3400XT/3500XT-P1** Technical Manual (# 37580)
- Genset control **easYgen-3400XT/3500XT-P2** Technical Manual (# 37581)
- Circuit breaker control **easYgen | LS-6XT** Technical Manual (# 37914)
- Personalization (logo, boot-up screen) Application Note (# 37946)
- Customization (add new page, new device) Application Note (# 37949)

Product Documentation site, <http://wwdmanuals.com/easyview>