



Visualization & Virtualization

Tomas Knobloch
Solution Architect Visualisation, SW, Process
SummerDays 2015, Velke Karlovice

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Virtualisation Bases

Physical PC Virtualisation

Labs – PanelView 7, FTView SE 8.0, PlantPAx Operator & Engineering

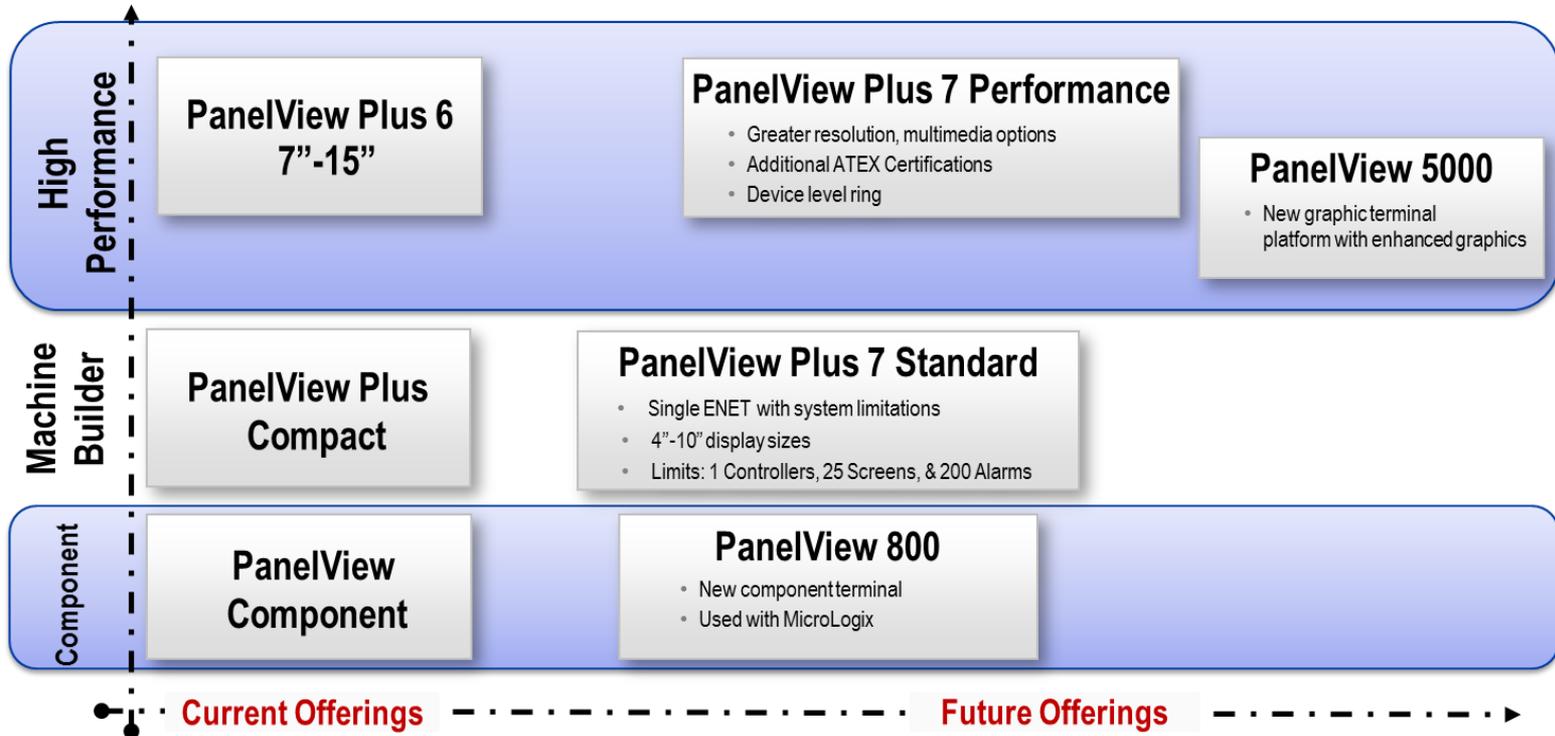
Discussions



Operator Interfaces

Tomas Knobloch
Solution Architect Visualisation, SW, Process
SummerDays 2015, Velke Karlovice

PanelView Portfolio Positioning



What's New

**Rockwell
Automation**

MobileView



FactoryTalk View

Available Now!

PanelView™ Plus 7



FactoryTalk View

Standard: AFC Dec, 2014
Performance: AFC Q3CY15

PanelView™ 5500



Rockwell Software

Studio 5000™

AFC Q3CY15

PanelView™ Portfolio

PanelView™ 5000

**Rockwell
Automation**



PanelView™ Classic

PanelView™ Standard

PanelView™ Enhanced

PanelView™ Plus

PanelView™ Plus Compact

PanelView™ Plus 6

PanelView™ Plus 7

Since 1989

2015



PanelView™
5000

2015

PanelView™ 5000 products start a brand new lineage and usher in a whole new level of integration with Logix!



PanelView Plus 7 Operator Interface

August 2015

PanelView Portfolio

**Rockwell
Automation**



An evolution of graphic terminals since 1989

PanelView Portfolio

**Rockwell
Automation**



PanelView Classic

PanelView
Standard

PanelView
Plus 6

...

PanelView Plus 7 extends the Portfolio further

PanelView Plus 7

Standard and Performance Models

**Rockwell
Automation**

More Screen Options
Greater Resolutions
Additional Certifications

- **New Displays**
 - Increased screen resolution
 - Wide screen options
 - **Additional sizes – from 4” to 19”**
- **Certifications:**
 - **ATEX on all Standard models and future on Performance models**
 - Marine (Future Certification for Performance models)
 - IP66, IP54, NEMA 12, NEMA 13 and NEMA 4X



**Standard and
Performance models**

PanelView Plus 7 Standard

Features & Benefits

**Rockwell
Automation**

Machine Builder Focused

- OEM Optimized Design
 - Expanded Processing Power
 - Composite bezel
- Competitive Solution
 - More screen options
 - Greater resolution
 - Wide screen options
- **Application Size Limits**
 - **1 Controller**
 - **≤25 Screens**
 - **≤200 Alarms**

Standard

- **4.3"W, 5.7", 6.5", 9"W, 10.4", 12"W, 15"**
- Low profile composite bezel
- Resistive touch screen
- **Single port Ethernet**
- ARM processor
- 512 MB Flash Memory / 512 MB RAM
- Windows CE 6.0 standard features
- DC powered
- Removable Battery
- Targeted for simpler / smaller applications
- **ATEX Certification, Class 1 Div. 2**

PanelView Plus 7 Performance

For Demanding Industries

**Rockwell
Automation**

Larger Applications

- Robust Design
- Expanded Processing Power
- Larger Applications
 - Examples:
 - ≤300 Screens
 - ≤3,000 Tags
 - ≤400 Alarms
- Ideal for Variety of Industries
 - Process
 - Metals
 - Mining / Aggregate
 - Marine
 - Tire and Rubber

Performance

- 6.5", 9"W, 10.4", 12"W, 15", 19"
- Low profile painted aluminum bezel
- Resistive touch screen with keypad options
- Ethernet with embedded switch (DLR)
- X86 processor
- 1 GB Flash Memory / 512 MB RAM
- Windows CE 6.0 extended features
- DC and AC power options
- Targeted at larger / complex applications
- Marine Certification (Future release)
- ATEX Certification (Future release)

PanelView Plus 7 Comparison of Features

Product Features	PanelView Plus 7 Standard model	PanelView Plus 7 Performance model
FactoryTalk Machine Edition	Y	Y
ViewPoint	Y	Y
Memory RAM / Flash	512 MB / 512 MB	512MB / 1 GB
PDF Viewer	Y	Y
Active X Controls (Email, DataStorePlus, Recipe)	Y	Y
Remote Terminal Control (Based on VNC)	Y	Y
FTP Server	Y	Y
MPEG Video playback	N	Y
Microsoft Office Viewers	N	Y
Microsoft Internet Explorer	N	Y
Remote Desktop Services	N	Y
Ethernet Connectivity	Y (Single Only)	Y (DLR Only)
CPU	ARM 1Ghz	x86 1.6Ghz
Screen Sizes	4.3"-15"	6.5", 9"W, 10.4", 12"W, 15", 19"
Application Sizes	1 Controller, 25 Screens, 200 Alarms	Larger Applications
Catalog numbers	2711P-xxxxx8S	2711P-xxxxx9P



PanelView Plus 7 Standard Models

Learn details about the PanelView Plus 7 terminals

PanelView Plus 7 Standard

**Rockwell
Automation**

*Decrease time to market...
Increased screen resolution...*

Standard Model – Single Ethernet

- Machine Builder Focus
- Sizes: 4”-15”
- Single Ethernet
- Touch Screen
- Low Profile, Composite Bezel
- FactoryTalk View Machine Edition - supporting MER files back to 5.1
- 7 Catalogs – Allen-Bradley Branded
- 7 Catalogs – No Branding



Widescreens

New Display Sizes.....

ATEX Certifications

PanelView Plus 7 Standard Anatomy

SD storage card slot for data storage and terminal replication



New installation clamps provide fast and simple terminal installation and removal



USB Ports for quick upload and download to the terminal



Embedded Ethernet port for connectivity from the machine to the enterprise



PanelView Plus 7 Standard

Release 1

**Rockwell
Automation**

Catalog Number	PanelView Plus 7 Standard EOI Description
2711P-T4W21D8S	4" WQVGA TFT color, Touch, DC powered, Single Ethernet port
2711P-T6C21D8S	6" VGA TFT color, Touch, DC powered, Single Ethernet port
2711P-T7C21D8S	7" VGA TFT color, Touch, DC powered, Single Ethernet port
2711P-T9W21D8S	9" WVGA TFT color, Touch, DC powered, Single Ethernet port
2711P-T10C21D8S	10" SVGA TFT color, Touch, DC powered, Single Ethernet port
2711P-T4W21D8S-B	4" WQVGA TFT color, Touch, DC powered, Single Ethernet port, with blank bezel
2711P-T6C21D8S-B	6"VGA TFT color, Touch, DC powered, Single Ethernet port, with blank bezel
2711P-T7C21D8S-B	7" VGA TFT color, Touch, DC powered, Single Ethernet port, with blank bezel
2711P-T9W21D8S-B	9" WVGA TFT color, Touch, DC powered, Single Ethernet port, with blank bezel
2711P-T10C21D8S-B	10" SVGA TFT color, Touch, DC powered, Single Ethernet port, with blank bezel

Accessories

- Mounting Levers - 2711P-RMCS
- SD Card Covers - 2711P-RCKS
- DC Terminal Blocks - 2711P-RTBDSP
- Protective Overlays - 2711P-RGTxS (x is terminal size)
- Battery Covers - 2711P-RYKS

PanelView Plus 7 Standard

Release 2

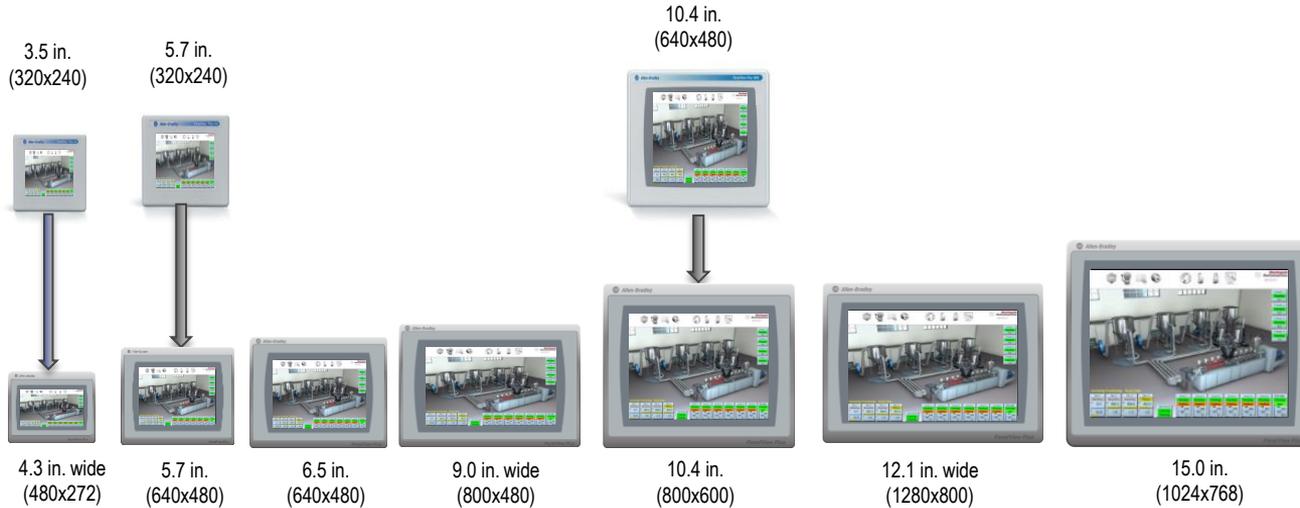
**Rockwell
Automation**

Catalog Number	PanelView Plus 7 Standard EOI Description
2711P-T12W21D8S	12" WXGA TFT color, Touch, DC powered, single Ethernet port
2711P-T15C21D8S	15" XGA TFT color, Touch, DC powered, single Ethernet port
2711P-T12W21D8S-B	12" WXGA TFT color, Touch, DC powered, single Ethernet port, with blank bezel
2711P-T15C21D8S-B	15" XGA TFT color, Touch, DC powered, single Ethernet port, with blank bezel

Releasing two more model sizes (12" & 15")

PanelView Plus 6 Compact vs PanelView Plus 7 Standard display sizes

**Rockwell
Automation**



More Screens Sizes and Greater Resolution to Chose From.

PanelView Plus 7 Performance Models

Learn details about the PanelView Plus 7 terminals

PanelView Plus 7 Performance

**Rockwell
Automation**

- Machine builder and end user focus
- Sizes: 6.5”, 9”W, 10.4”, 12”W,15”, 19”
- Dual Ethernet DLR connectivity
- Touch Screen or keypad options
- Available in AC or DC
- No limitations
- FactoryTalk View Machine Edition v8
- 18 Catalogs – Allen-Bradley Branded
- 18 Catalogs – No Branding



***Widescreens
New Display Sizes.....
Dual Ethernet DLR***

PanelView Plus 7 Performance

**Rockwell
Automation**

**Mobile ready with VNC
support and FactoryTalk
Viewpoint**



**Widescreen, keypad and
touchscreen options**

With the embedded PDF Viewer, show:

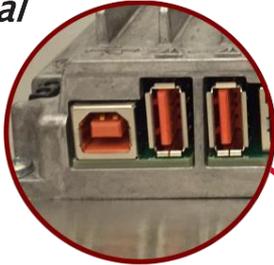
- **User Manuals**
- **Installation Manuals**
- **SOPs (Standard Operating Procedures)**

**Faceplates and Add-on Instructions can
save 50 – 90% of complex screen
development time**

PanelView Plus 7 Performance

**Rockwell
Automation**

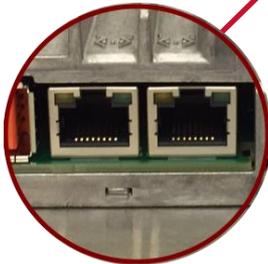
USB Ports for quick upload and download to the terminal



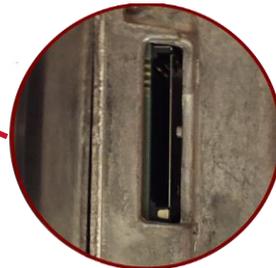
New installation clamps provide fast and simple terminal installation and removal



Embedded dual Ethernet port with DLR connectivity



SD storage card slot for data storage and terminal replication



PanelView Plus 7 Performance

Catalog Numbers

**Rockwell
Automation**

Catalog Number	PanelView Plus 7 Performance EOI Description	Screen Resolution	Bezel dimensions
2711P-T7C22D9P	7" VGA TFT color, Touch, DC powered	640 x 480 VGA	170 x 212 x 69.6 mm; 6.69 x 8.35 x 2.74 in.
2711P-T7C22A9P	7" VGA TFT color, Touch, AC powered	640 x 480 VGA	170 x 212 x 69.6 mm; 6.69 x 8.35 x 2.74 in.
2711P-B7C22D9P	7" VGA TFT color, Keypad/Touch, DC powered	640 x 480 VGA	179 x 285 x 69.6 mm; 7.05 x 11.22 x 2.74 in.
2711P-B7C22A9P	7" VGA TFT color, Keypad/Touch, AC powered	640 x 480 VGA	179 x 285 x 69.6 mm; 7.05 x 11.22 x 2.74 in.
2711P-T9W22D9P	9" WVGA TFT color, Touch, DC powered	800 x 480 WVGA	190 x 280 x 69.6 mm; 7.48 x 11.02 x 2.74 in.
2711P-T9W22A9P	9" WVGA TFT color, Touch, AC powered	800 x 480 WVGA	190 x 280 x 69.6 mm; 7.48 x 11.02 x 2.74 in.
2711P-T10C22D9P	10" SVGA TFT color, Touch, DC powered	800 x 600 SVGA	252 x 297 x 69.6 mm; 9.92 x 11.69 x 2.74 in.
2711P-T10C22A9P	10" SVGA TFT color, Touch, AC powered	800 x 600 SVGA	252 x 297 x 69.6 mm; 9.92 x 11.69 x 2.74 in.
2711P-B10C22D9P	10" SVGA TFT color, Keypad/Touch, DC powered	800 x 600 SVGA	252 x 385 x 69.6 mm; 9.92 x 15.16 x 2.74 in.
2711P-B10C22A9P	10" SVGA TFT color, Keypad/Touch, AC powered	800 x 600 SVGA	252 x 385 x 69.6 mm; 9.92 x 15.16 x 2.74 in.
2711P-T12W22D9P	12" WXGA TFT color, Touch, DC powered	1280 x 800 WXGA	240 x 340 x 69.6 mm; 9.69 x 13.39 x 2.74 in.
2711P-T12W22A9P	12" WXGA TFT color, Touch, AC powered	1280 x 800 WXGA	240 x 340 x 69.6 mm; 9.69 x 13.39 x 2.74 in.
2711P-T15C22D9P	15" XGA TFT color, Touch, DC powered	1024 x 768 XGA	318 x 381 x 69.6 mm; 12.52 x 15.00 x 2.74 in.
2711P-T15C22A9P	15" XGA TFT color, Touch, AC powered	1024 x 768 XGA	318 x 381 x 69.6 mm; 12.52 x 15.00 x 2.74 in.
2711P-B15C22D9P	15" XGA TFT color, Keypad/Touch, DC powered	1024 x 768 XGA	329 x 484 x 69.6 mm; 12.95 x 19.06 x 2.74 in.
2711P-B15C22A9P	15" XGA TFT color, Keypad/Touch, AC powered	1024 x 768 XGA	329 x 484 x 69.6 mm; 12.95 x 19.06 x 2.74 in.
2711P-T19C22D9P	19" SXGA TFT color, Touch, DC powered	1280 x 1024 SXGA	411 x 485 x 69.6 mm; 16.18 x 19.09 x 2.74 in.
2711P-T19C22A9P	19" SXGA TFT color, Touch, AC powered	1280 x 1024 SXGA	411 x 485 x 69.6 mm; 16.18 x 19.09 x 2.74 in.

For Brandless Option - Add "- B" to the catalog number

PanelView Plus 7 Performance

Adapter Plates & Accessories

**Rockwell
Automation**

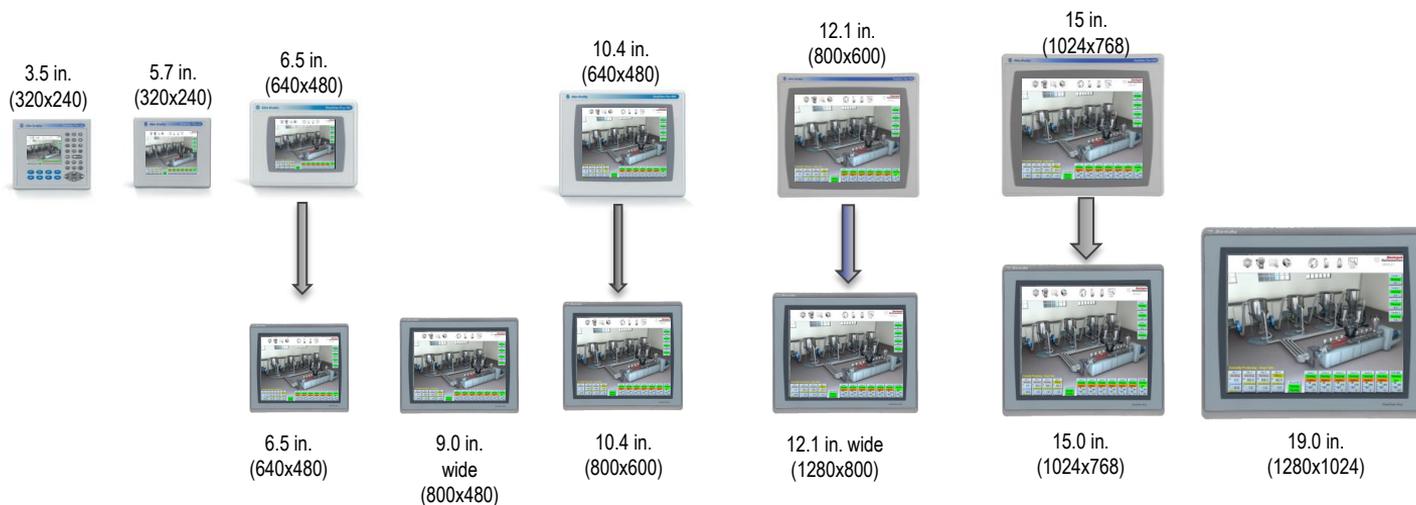
Catalog #	PanelView Plus 7 Performance Adapter Plate Description
2711P-RAAT7	PanelView Plus 700 touch terminal to PanelView Plus 7 6.5" display touch terminal
2711P-RAAK7	PanelView Plus 700 keypad/keypad touch or PanelView Standard 600 keypad/keypad touch To PanelView Plus 7 6.5" display keypad touch terminal
2711P-RAAT10	PanelView Plus 1000 touch/PanelView Standard 900 touch terminal To PanelView Plus 7 10.4" display touch terminal
2711P-RAAK10	PanelView Plus 1000 keypad/keypad touch or PanelView Standard 900 keypad/keypad touch To PanelView Plus 7 10.4" display keypad touch terminal
2711P-RAAT12	PanelView Plus 1250 touch/PanelView Standard 1000 touch terminal To PanelView Plus 7 12.1" display touch terminal
2711P-RAATK12	PanelView Plus 1250 keypad/keypad touch or PanelView Standard 1000 keypad/keypad touch To PanelView Plus 7 12.1" display touch terminal
2711P-RAAT15	PanelView Plus 1500 touch to PanelView Plus 7 15" display touch terminal
2711P-RAAK15	PanelView Plus 1500 keypad/keypad touch to PanelView Plus 7 15" display keypad touch terminal

Accessories

- Mounting Levers - 2711P-RMCP
- AC Terminal Blocks - 2711P-RTBAP
- Protective Overlays - 2711P-RGTxS (x is terminal size)

PanelView Plus 6 vs PanelView Plus 7 Performance Display Sizes

**Rockwell
Automation**



PanelView Plus 6 to PanelView Plus 7 adapter plates will be available for Performance lines only

PanelView Plus 7 Family Features

Learn details about the PanelView Plus 7 terminals

PanelView Plus 7

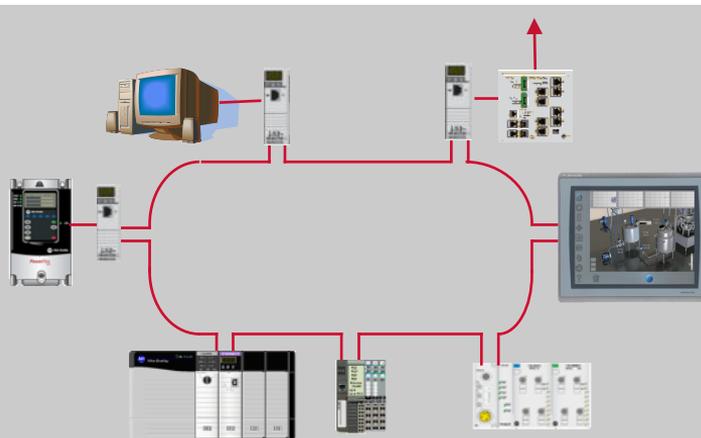
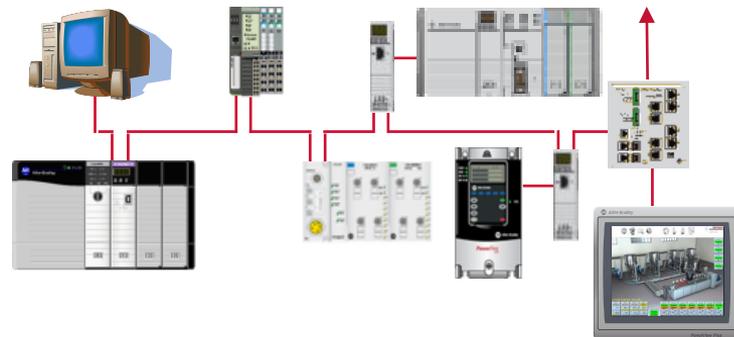
Ethernet Connectivity

**Rockwell
Automation**

Available communication options:

- Ethernet Only
- Standard 4"-15" Single Port
- Performance 7"-19" DLR

PanelView Plus 7
Standard version
include an embedded
Ethernet Port.



PanelView Plus 7
Performance line comes
with an embedded switch
(DLR).

Productivity Tools

- Tools to get the job done efficiently!



PDF
Reader



Email



Datalog



Backup /
Restore

Additional PanelView™ Plus 7 Performance Features



Media
Player



Office Viewers



Web
Browser

Mobility Tools



FactoryTalk® ViewPoint



VNC (Virtual Network Computing)



FTP (File Transfer Protocol)



- Use **Datastore Plus** to log data to identify and adjust process variation; View and Analyze in Microsoft Excel
- Configure **email notifications** for critical equipment alarms
- **RDP** client feature helps make the PanelView Plus 7 into a thin client terminal
- Web browser **ActiveX to embed HTML pages** inside the HMI application
- **Video playback** support provides advanced “user help” capability
- Load maintenance manuals directly on terminal
 - Bookmark important pages and tie them to critical alarms
 - Identify and fix fault codes quickly

PanelView Plus 7

Mobility Tools

**Rockwell
Automation**

FactoryTalk ViewPoint - Extend visualization and real-time decision capabilities to browser-based remote users:

- On-demand web access from anywhere
- Supports multiple browsers / client devices

Virtual Network Computing (VNC) - Extends graphical desktop sharing of a PanelView Plus 7 terminals and its content to remote users

File Transfer Protocol (FTP) - allows transferring of files to/from your PC to PanelView Plus 7 terminals, including alarm logs, data logs, CSV Recipe Files, PDF manuals and videos



PanelView Plus 7

SD Card Data Storage

**Rockwell
Automation**

Quick and Easy Terminal Copy & Restore

Use an SD card to quickly create copies of a terminal to reduce your time to market or restore a terminal.

- Operating system
- Network configuration and terminal settings
- FactoryTalk® View Machine Edition (ME) runtime file
- Datalogs and Recipe files



Praktická ukázka

VNC, FTViewPoint ME, FTP, Desktop Access

PanelView Plus 7 Release Schedule

**Rockwell
Automation**



Release 1 – Q2FY15

Standard Models

- 4"-10"
- Single Ethernet
- Associated Accessories

Release 2 – Q4FY15

Additional Standard Models

- 12" and 15" single Ethernet

Performance Models

- 7" – 19" all DLR
- Associated accessories

Adapter Plates

Release 3 – Q2FY16

Standard Models with DLR

Release 4 – Q3FY16

Performance Models with ATEX Certification

Frequently Asked Questions

Learn details about the PanelView Plus 7 terminals

PanelView Plus 7

Frequently Asked Questions

**Rockwell
Automation**

- Why does the PanelView Plus 7 not have a zero gap with the enclosure?
 - There is a small gap between the terminal and the enclosure when mounted, but the gasket material provides a rated seal.
- Are both Standard and Performance repairable?
 - **The Performance line repairable but the Standard line is not.**
- What versions of FTView ME do the terminals support?
 - The family will support (at full release) MER file from 8 back to 3.2 for Performance and 5.1 for Standard.
- What is the screen resolution compared to the PVP6?

Terminal Size	PVP6 Resolution	PVP7 Resolution
4"	320x240	482x272 (Wide)
6"	320x240	640x480
7"	640x480	640x480
10"	640x480	800x600
12"	800x600	1280x800
15"	1024x768	1024x768

What impact will the different resolutions have on running a PVP6 application on the PVP7?

- With the exception of the 7" and 15" terminals, all the PVP7 terminals have greater resolutions.
- Without resizing the application it will run in the top/left of the terminal, displaying either Windows CE or FactoryTalk View ME Station.
- If the terminal is set to allow desktop access and the shell type is set to open
 - The application will NOT resize to match the resolution of the hardware
 - The application will NOT cover the screen, the Windows CE desktop is exposed and **CAN BE INTERACTED WITH** via touch
- If the terminal is set to disallow access and the shell type is set to close...
 - The application will NOT resize to match the resolution of the hardware
 - The application will NOT cover the screen; therefore, FactoryTalk View ME Station will be exposed, but cannot be interacted with via touch

- Why does the display **look so fuzzy or hazy** compared to the PVP6?
 - The PVP7 **has a matte layer** in the overlay **to reduce the glare** of the product. Load up an application (samples on NOGGIN) to show the terminal to the customer.
- Where can I find same applications to demo?
 - On NOGGIN you should be able to find controller-less applications to demo the product with.

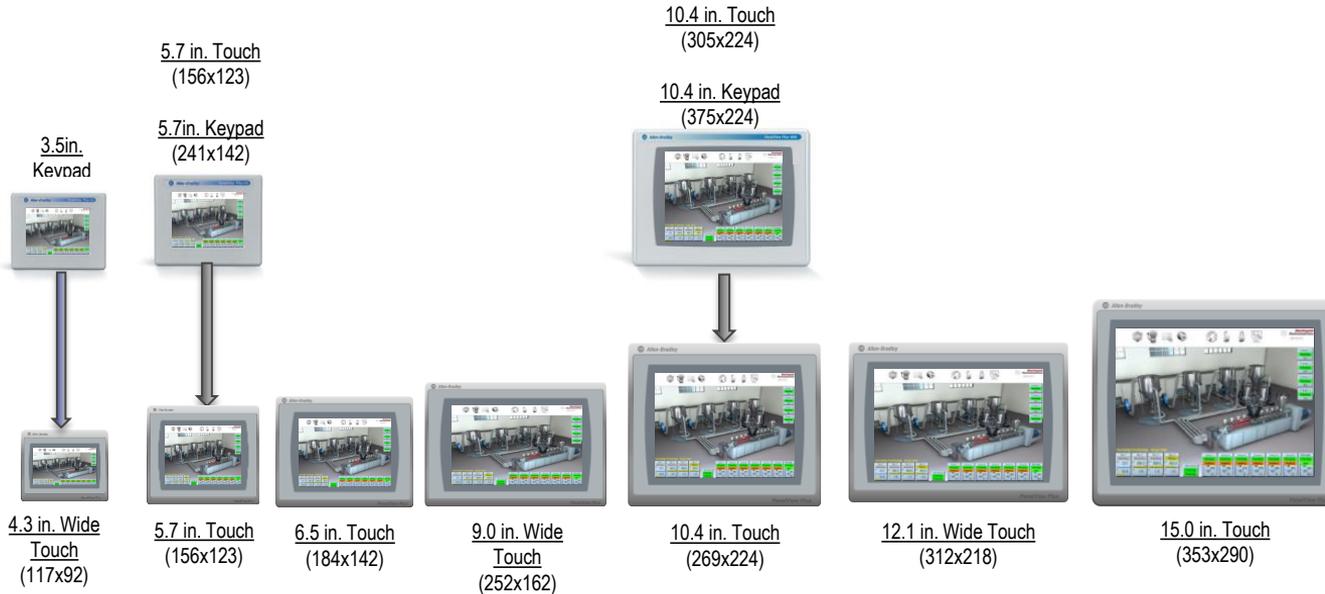
- **Kepware Drivers**
 - The PanelView Plus 7 Standard will support up to one Kepware driver, similar to the PVP6 Compact
- **Brandless In Stock**
 - We will offer the Brandless terminals in stock
- **Portrait Mode Support**
 - Yes for Performance and No for Standard
- **Conformal Coating**
 - The terminal were not designed for conformal coat, so we are working on a long term solution. Until then, the PVP6 family offers conformal coating.

PanelView Plus 7

Frequently Asked Questions

**Rockwell
Automation**

- How do the cutout dimensions of the PanelView Plus 6 Compact compare to the PanelView Plus 7 Standard (Dimensions in mm)?

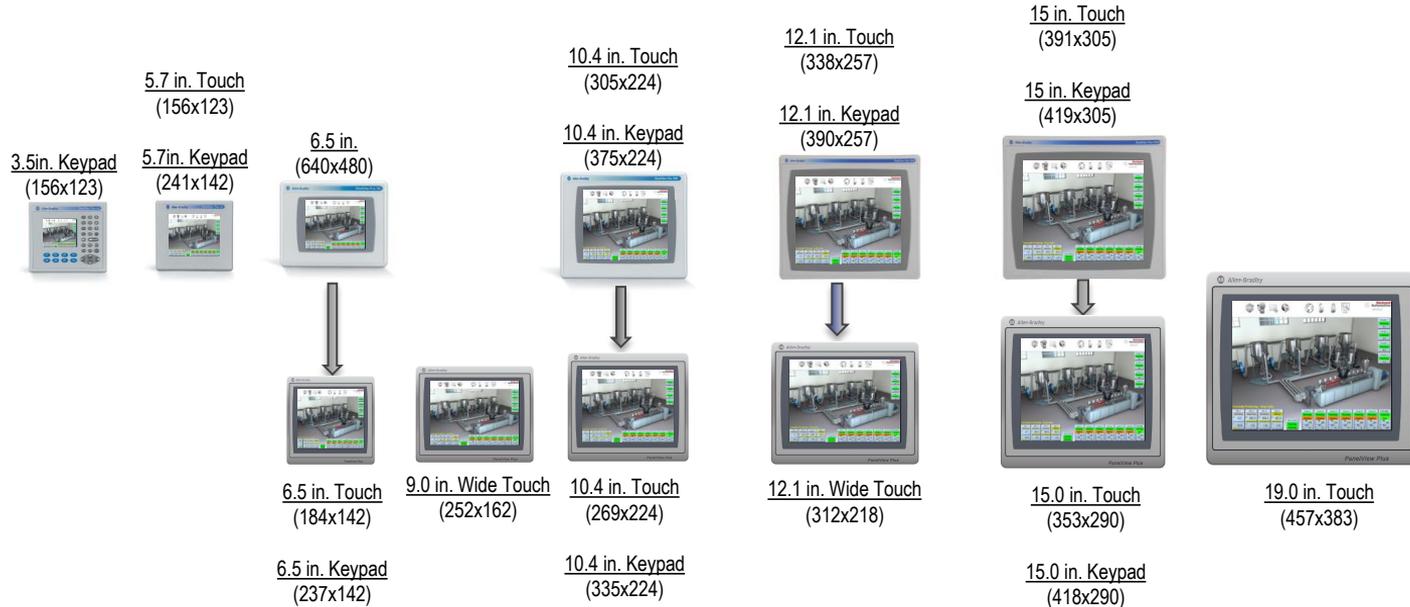


PanelView Plus 7

Frequently Asked Questions

**Rockwell
Automation**

- How do the cutout dimensions of the PanelView Plus 6 compare to the PanelView Plus 7 Performance (Dimensions in mm)?



FTView ME software

Learn details about the PanelView Plus 7 terminals

FactoryTalk® View Machine Edition 8.00

August 2014 Release

**Rockwell
Automation**

Configuration and Application Building

- Simplified project management
- Resizable alarm editor
- Application Manager workflow

Improved Run-Time Experience

- **User Management controls**
- **Improved Domain Authentication**
- Security Code changes
- Improved audit trail
- User Group Security functions
- Application loading Error-proofing
- Unsolicited Messages

Expanded Operating System Support

- **Windows 8**
- **Windows 8.10 Update**
- **Windows 2012 Server R2**
- Last release supporting older Microsoft Operating Systems & FactoryTalk View Machine Edition versions

Streamlined Installation

- Unattended Install
- Uninstall FactoryTalk View Tool

Support for PanelView™ Plus 7 Terminals

FactoryTalk® View Machine Edition 8.10

Pending Release – July/August 2015 Release

**Rockwell
Automation**

Configuration and Application Building

- Design-time multi-monitor support
- Tag placeholders supported during Test Display

Improved Run-Time Experience

- Device Level Ring (DLR) configuration for PanelView Plus 7 Performance
- Support MobileView tethered terminal
- Domain authentication optimizations

Expanded Operating System Support

- Removed Windows Vista support
- Removed Windows Server 2003 support

Streamlined Maintenance

- Communication diagnostics

- FactoryTalk® View v8.10 is the LAST release to support
 - Windows XP [any edition or SP]



MobileView Tethered Overview Presentation

2711T

Contents

Benefits

Differentiators

Positioning

Applications

Technical Information

MobileView Tethered Operator Terminal

**Rockwell
Automation**



The MobileView Tethered Operator Terminal expands the visualization portfolio by taking the terminal mobile and improves productivity by eliminating the need for two operators for certain operations. With three cable length options and a hardwired E-STOP and 3-position enabling switches, the terminal helps contribute to a safe production environment.

Increase operator productivity

- Reduce time by having the operator terminal within line of sight of process
- 5M, 10M or 15M cable with “quick connect” connector and mounting bracket options

Innovative Design

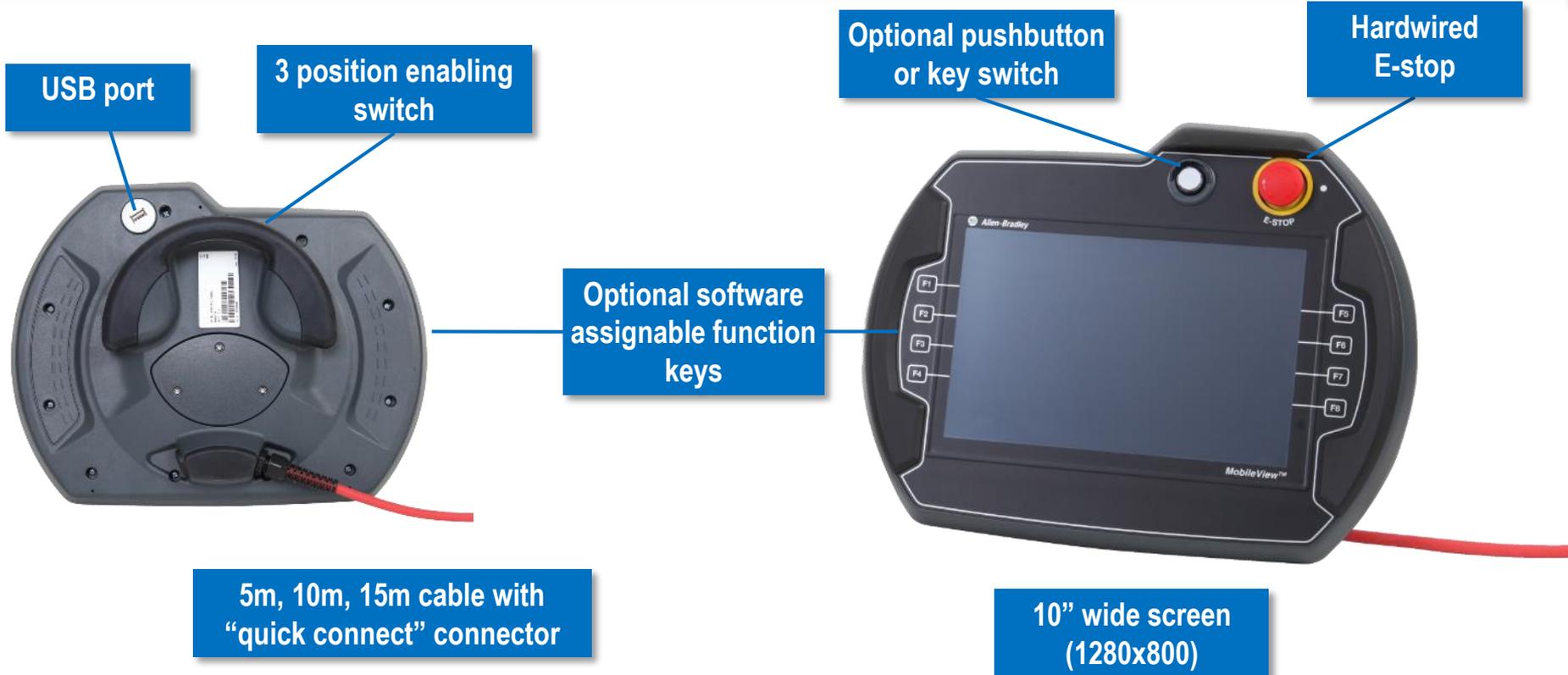
- 10” wide display (1280x800) with resistive touch screen for easy viewing
- Windows Embedded Standard 7 operating system optimized for FactoryTalk View ME

Establish a safer environment

- Hardwired E-STOP and 3-Position enabling switches for additional safety
- Optional software assignable function keys with either hardwired momentary push button or key switch
- IP65, 0-45C operating temperature and 1M drop rated to work in industrial environments

MobileView Tethered Differentiators

**Rockwell
Automation**



MobileView Tethered Applications

- HMI Applications with line of sight requirements
- Setup/calibration activities where an operator needs to be in close proximity to application with access to HMI
- Applications requiring local safety functionality through E-STOP or enabling switch
- Maintenance applications
- Applications requiring one or multiple mobile HMI stations



MobileView Technical Features

General

**Rockwell
Automation**

Attribute	2711T-T10R1N1	2711T-B10R1K1	2711T-B10R1M1	2711T-T10G1N1
Processor	Intel Atom 3815, 1.46 GHz			
Operating System	Microsoft Windows Embedded Standard 7 SP1			
Memory	4 GB RAM 32 GB Flash			
Display	Size: 10.1, Color/resolution: WXGA/1280 x 800 pixels, Resistive Touch Screen			
Function Keys	No	Yes	Yes	No
2-circuit E-STOP	Yes - Red			Yes - Gray
3-position enable switch	Yes			
USB drive slot	Yes			
Communication	10/100/1000 Ethernet			
Dimensions	Diameter: 349 mm (13.74 in), Depth w/o handle: 70 mm (2.75 in); Depth with handle: 110 mm (4.33 in)			

MobileView Technical Features

Electrical

**Rockwell
Automation**

Attribute	2711T-T10R1N1	2711T-B10R1K1	2711T-B10R1M1	2711T-T10G1N1
Nominal supply voltage	MobileView terminal without cable: 24V DC			
Supply voltage range	19.2...30V DC			
Typical input current	500mA at 24V DC, 600mA at 19.2V DC			
Peak in rush current	5.6A (max)			

MobileView Technical Features

Environmental

**Rockwell
Automation**

Attribute	2711T-T10R1N1	2711T-B10R1K1	2711T-B10R1M1	2711T-T10G1N1
Operating temperature	0...45 °C (32...113 °F)			
Storage temperature	-25...70 °C (-13...158 °F)			
Protection degree	IP65			
Vibration (operating)	10...57 Hz, 0.15 mm p-p, 57...150 Hz, 1 G peak			
Shock (operating)	15 G (1/2 Sine, 11 msec) IEC 60068-2-27			
Drop Rate	1 M			

Catalog Numbers

**Rockwell
Automation**

Description	Catalog #
MobileView, 10" Display, RED E-stop, Enabling Switch, Touch Only	2711T-T10R1N1
MobileView, 10" Display, RED E-stop, Enabling Switch, Key Switch, Touch & Function Keys	2711T-B10R1K1
MobileView, 10" Display, RED E-stop, Enabling Switch, Momentary Button, Touch & Function Keys	2711T-B10R1M1
MobileView, 10" Display, GREY E-stop, Enabling Switch, Touch Only	2711T-T10G1N1
MobileView Accessory, Junction Box, IP20, DC	2711T-JBIP20DC
MobileView Accessory, Mounting Bracket	2711T-BRACKET
MobileView Accessory, 5M Tether Cable	2711T-5MCABLE

MobileView Configuration

- Out-of-box experience similar to a computer
 - Quick-start guide and detailed user manual available
- FactoryTalk View ME updates delivered via new system image
 - Built in backup and restore tool for deploying updated system image
 - System images will be posted to Product Compatibility & Download Center
- Initial release with FactoryTalk View ME 8.0 system image

MobileView Accessories

**Rockwell
Automation**

Cat. No.	Description
2711T-5MCABLE	Connection cable (5 m/16.4 ft) to connect the terminal to the junction box.
2711T-10MCABLE	Connection cable (10 m/32.8 ft) to connect the terminal to the junction box.
2711T-15MCABLE	Connection cable (15 m/49.2 ft) to connect the terminal to the junction box.
2711T-JBIP20DC	IP20 junction box with a locking connector that is 24V DC powered.
2711T-BRACKET	Mounting bracket for stationary operation or to store the terminal.



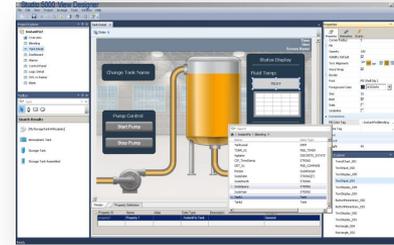


PanelView 5000 Preview

PanelView 5000 – Overview

**Rockwell
Automation**

- The beginning of a long term vision of bringing better:
 - System performance
 - Design productivity
 - Operator experience
- Two PanelView 5000 product lines
- Designed with Studio 5000



PanelView™ 5500

**Rockwell
Automation**

- Next lineage of HMI platforms for premiere Logix integrated solutions using Studio 5000 View Designer™ software
 - Display sizes: 7", 9"W, 10", 12"W, 15", 19"
 - Touch & Keypad options w/ Navigation Button
 - EtherNet/IP with DLR
 - AC/DC power options



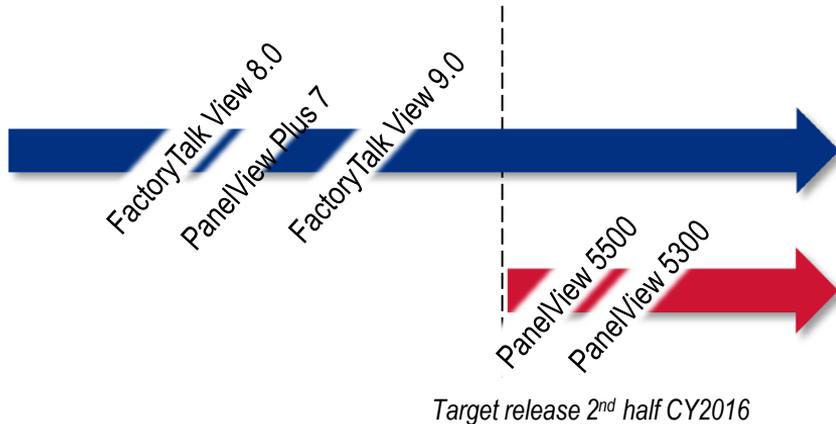
Release 1 Capabilities

- CY2015 Q3
- Tailored for OEMs and machine builders
 - 1 Logix controller connection
 - V27 – L1, L2, L3, and L7
 - 50 screens
 - 500 Logix-based alarms
 - English language support only
 - Real-time trending (no historical trending)
 - Logix integrated High-speed HMI button
 - DLR and embedded switch technology



Visualization Ongoing Focus

- Integrate Visualization and Control for better performance
- Eliminate redundant programming
- Improve user operating experience



Hardware Platform

**Rockwell
Automation**

PanelView 5300

For Smaller Systems

- 5.7", 6.5", 9"W, 10.4"
- Low profile plastic bezel
- TFT color displays with LED backlight
- Resistive touch screen
- Device level ring (DLR)
- Ethernet with single Ethernet option on 5.7" to 10.4"
- DC powered
- Targeted for simpler / smaller applications



PanelView 5500

- 6.5", 9"W, 10.4"
- Low profile aluminum bezel (AB+Brandless)
- TFT color displays with LED backlight
- Resistive touch screen with navigation button and keypad options
- Device level ring (DLR) Ethernet
- DC and AC power options
- Targeted at larger / complex applications

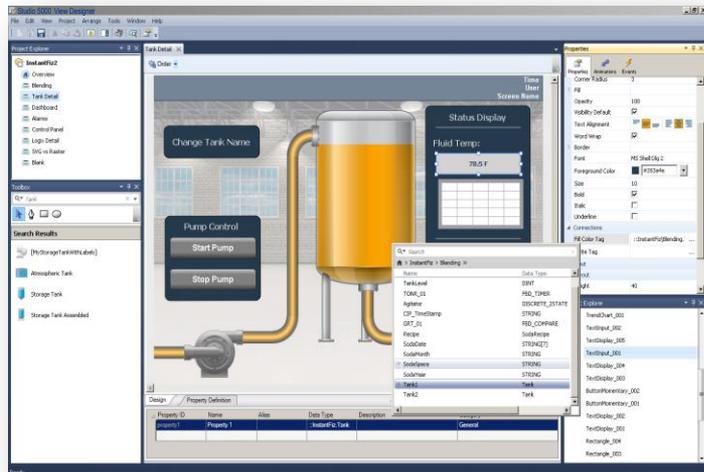


Integrate Visualization and Control

- Logix based alarms and data logging (trend displays)
- High speed button control
 - Performance of a hardwired push button without the added cost
 - Automatic diagnostics / reset eliminates the need for custom code



Eliminate redundant programming



“Direct Reference” tags linked by browsing Logix projects

Alarms and data logging based in Logix and shared to

Enter information once and leverage it across the architecture

Eliminate redundant programming

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Logix & View Integrated Design Environment

Logix Designer

Programming and configuration for Logix controllers.



View Designer

Graphical design environment for View 5000 HMIs.

New User Interface.

One Product

With PanelView 5000



One Install



One Launch Point



One Price



One Activation



One Catalog Number

Improve user operating experience

Rockwell
Automation

- Fast intuitive navigation with built-in menu
- Realistic graphics enhance the operator experience
- Low profile bezel provides a sleek, flowing operator interface





Release plans

Changes may occur!

Release linked to Logix

- Support for newer Logix Controllers and Software.
 - Extensions for PanelView 5000 design-time and run-time features
- PanelView 5000's design software (View Designer) will be included with Logix Designer (Bundled as Studio 5000).
- We will slot into the next available Logix release as View 5000 development completes.



Multi-phased Release Plan

Phase 1 Releases

- OEM / SIs building small to mid-sized machines & small end-users
- Logix users
- Simpler application needs
- High speed data and machine control needs
- Standalone operations
- English only

• **PanelView 5500
and 5300
Terminals**

Phase 2 Releases

- International version
- Runtime language switching
- Web clients
- View5000 Station
- Enhanced integration with Logix
- Increased functionality

• **View 5000 Station
version (w/ thin
client)**

Phase 3 Releases

- OEM / SIs building large machines & medium end-users
- RA Legacy and Competitive controllers
- Networked operations
- Increased application sophistication

• **View 5000 Distributed
• PanelView 5700**

Future

- Large process SIs and Large End Users
- Thick and Thin clients
- Comprehensive application capabilities
- System management capabilities
- 3rd party software interactions

Single Visualization architecture that spans entire spectrum of automation users



Top Frequently Asked Questions

- What is it?
 - A brand new line of PanelView products programmed with Studio 5000.
- What's the difference between PanelView 5500 and PanelView 5300?
 - PanelView 5500 has higher performance ... PanelView 5300 is optimized for midrange systems.
- Why has the release been delayed?
 - The new architecture that enables our long term vision for our HMI portfolio requires more time than originally anticipated. Rather than constrain our future products, we decided to delay the release to provide adequate time to lay the ground work.
- Which controllers does it work with?
 - PV 5000 will work with the newest Logix 5000 firmware at the time of release; in the ControlLogix and CompactLogix families.
- How much will it cost?
 - The PV 5000 product line will be competitively priced.

Top Frequently Asked Questions (cont.)

- Does this replace PanelView Plus / FactoryTalk View ME?
 - PanelView 5000 does not replace the PanelView Plus / FactoryTalk View ME platform.
- How long will PanelView Plus be around?
 - There is no plan to stop support for PanelView Plus and enhancements are planned for years to come.
- When will PanelView 5000 have all the capabilities of PanelView Plus?
 - **They are different platforms. PanelView 5000 features will be enhanced over time. Look for more information as we get closer to release**
- What networks will it support?
 - EtherNet/IP
- Is there a PC version?
 - Not in the first release

Migration

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Automation**

Product Lifecycle Category Definitions



↑
Product Launch

↑
A Newer Product in that Category is Launched

↑
Announcement that Product will be Discontinued

↑
Discontinued Date

Product Lifecycle

Active

Active
Mature

End of
Life

Discontinued

MobileView



PanelView™
Plus 7



PanelView™
Plus 6



PanelView™
Standard



NEW

PanelView™
5000



Which Migration Path is Right for You?

Selecting an EOI path

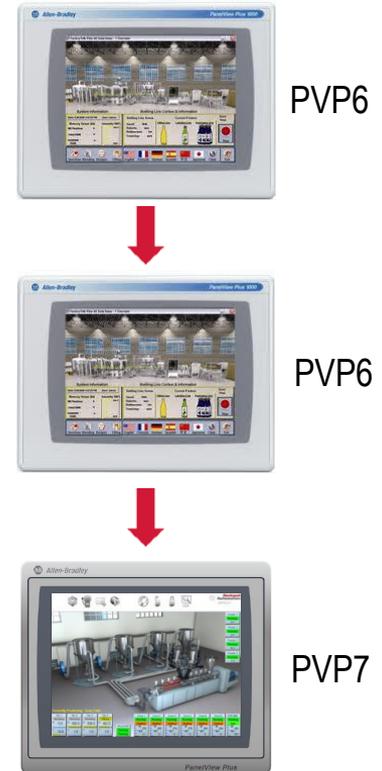


Customer “A”

- Is happy with PVP6 and would like to stay with PVP6 / FactoryTalk® View ME as long as possible

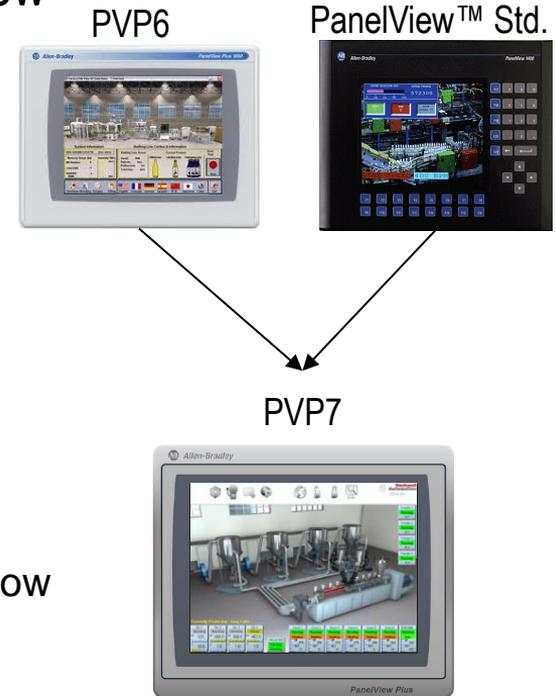


- Strategy
 - Migrate to PVP7 eventually
- Key things to consider
 - Move to PVP7 if you want to utilize existing FTView ME applications
 - Leverage better screen resolution and DLR if appropriate



Customer “B”

- Would like to eventually be on the PV5500 platform, but would like to move to PVP7 now to take advantage of new features
 - Strategy
 - Migrate to PVP7 now
 - Key things to consider
 - You will already be using hardware that is similar to PV5500
 - Change to PVP7 now and your cutouts will be the same for PV5500
 - Take advantage of higher screen resolutions right now and DLR as appropriate



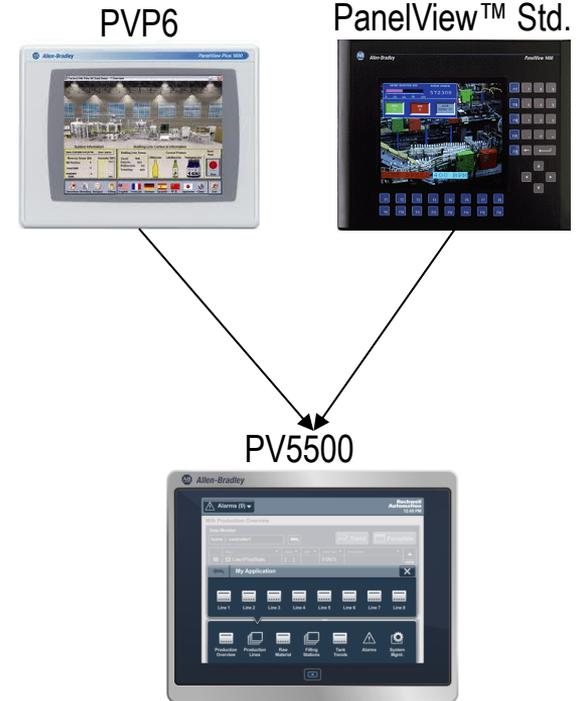
Customer “C”

- Has a line of sight application
 - Strategy
 - Migrate to MobileView
 - Key things to consider
 - Can still use existing FactoryTalk® ME applications.
 - Consider E-Stop implementation
 - Ethernet only
 - Consider cable length needed – 5M, 10M, 15M



Customer “D”

- Wants to migrate directly to PV5500
 - Strategy
 - Migrate with the release of PV5500 that has the features you want / need
 - Key things to consider
 - Move to PVP7 if you want to utilize existing FTView ME applications
 - Will require new software package (Studio 5000® v27) – Cannot use FactoryTalk® ME with PanelView™ 5500.



Preferred Migration Strategy Summary

**Rockwell
Automation**



**PanelView™ Plus
6 Compact**



**PanelView™ Plus
7 Standard**



**PanelView™
Plus 6**



**PanelView™ Plus
7 Performance**



**PanelView™
Plus
line of sight
applications**



**MobileView
Tethered**



**Simple applications within the
capabilities of Release “R1”**



**PanelView™
5500**



What should I buy?

PanelView™ Plus 6

- Existing installed base
- Legacy network support



PanelView™ Plus 7

- Higher resolution
- Wide screen options
- Larger sizes up to 19"
- ATEX certifications
- Brand-less versions



MobileView

- Line of sight application
- Additional safety features
 - Hardwired E-Stop
 - 3-position switch



PanelView™ 5500

- New machine designs
- Application limits of Release 1
 - 1 controller
 - 50 screens
 - 500 logix based alarms



Dotazy ?

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