

# Technical Report

## SERVICE TOOL (Ver.2.4.2.0) VERSION UPGRADE

1. Model Name PN-R426, PN-R496, PN-R556, PN-R606, PN-R706

2. General Service tool have been upgraded.

3. Description Service Tool Ver.2.4.2.0

[PN-R426/R496/R556/R606/R706]

	Before change Version		After change Version	Comment
Service tool	2.3.2.0	⇒	2.4.2.0	
Integrated firmware	2.2.0.2	⇒	2.2.0.3	
Main firmware	2.2.0	⇒	2.2.0	No change
Scaler firmware	2.006	⇒	2.006	No change
Power microcomputer firmware	2.002	⇒	2.003	

[Item of change]

The correction for following defects has been implemented since integrated firmware Ver. 2.3.2.0 (previous release):

- Power microcomputer firmware
  - Supports changing the internal ROM capacity of the Power microcomputer

4.Action

(For the field)

Please use the above tool as needed basis.

When the firmware rewriting is required due to the replacement of the PWB etc, please use the latest version.

\* Please do not downgrade from the version after 2.2.0.3 to the previous version.

(If you accidentally downgrade, you can recover by upgrading to the latest version.)

(For the inventory)

None

(For the production)

PN-R426/R496/R556 : None (EOL)

PN-R606 : Running change from August 2021 production (1S014028~)

PN-R706 : Running change from July 2021 production (1S032497~)

[PN-R426]

(Release history of the main firmware)

Version [Checksum]	Detail	Action
1.2.0 [6B31527D]	New release (for North America)	
1.3.0 [7A37CF6F]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of resetting ANALOG GAIN and ANALOG OFFSET after executing reset for PICTURE settings while using any terminal other than D-sub	2016, October
1.7.0 [E2C736C4]	Support for new release for Europe Correction of failure to recover power microcomputer firmware in case upgrading this firmware fails during the firmware upgrade using USB flash drive Correction of failure to display proper input signal either 480 LINES or 768 LINES on Menu OSD when they are set using commands	2017, January
1.8.0 [3271B937]	Change of version number to share the firmware with other destinations	-
2.0.0 [7B8315CB]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.1.0 [ED9A22DF]	Correction of the problem that the email cannot be sent to a part of the mail server (SMTP) Correction of the problem that the value cannot be obtained with Brightness Adjustment command "SB*" by Schedule time Addition of the explanation about the recommended browser to Flash UI screen of Crestron Connected	2018, February
2.2.0 [DDCCCC09]	Support for new ErP Lot5 (for Europe only) • The OSD initially activated has been changed. • Followings have been changed in case the OPERATION MODE is set to MODE1: - POWER MANAGEMENT is forcibly turned on. - NO SIGNAL on OSD is changed - Standby mode is activated automatically after 5 minutes without any signal. Modification of the failure to reconnect to Crestron Connected server which occurred while disconnecting/connecting to network during the connection via Crestron Connected feature.	None

(Release history of the scaler firmware)

Version [Checksum]	Detail	Action
1.003 [00005ED7]	New release (for North America)	
1.010 [00006ACC]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of volume of sound being low while fixing AUDIO OUTPUT setting	2016, October
1.020 [0000E3E2]	Support for new release for Europe	2017, January
1.021 [00006ED7]	Correction of the problem that the image on the 2nd set daisy-chained may partly be shifted when PC is recovered from Sleep mode,	-
2.000 [00004AA7]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.001 [0000672C]	Correction of the problem that the picture is not displayed properly on the 2nd set and subsequent sets that are daisy-chained in rare case	2018, February
2.006 [0000846C]	Support for new ErP Lot5 (for Europe only)	None

(Release history of the power microcomputer firmware)

Version [Checksum]	Detail	Action
1.000 [912514FA]	New release (for North America)	
1.007 [42F4CE7B]	Support for new release for Europe	2017, January
1.008 [1C0F9637]	Change of version number to share the firmware with other destinations	-
2.000 [9E5757FF]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.002 [62814B95]	Support for new ErP Lot5 (for Europe only)	None
2.003 [90C3D43A]	パワーマイコンの内蔵 ROM 容量変更対応	None

[PN-R496]

(Release history of the main firmware)

Version [Checksum]	Detail	Action
1.2.0 [84C84A0D]	New release (for North America)	
1.3.0 [C7A8E885]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of resetting ANALOG GAIN and ANALOG OFFSET after executing reset for PICTURE settings while using any terminal other than D-sub	2016, October
1.7.0 [969A1D1C]	Support for new release for Europe Correction of failure to recover power microcomputer firmware in case upgrading this firmware fails during the firmware upgrade using USB flash drive Correction of failure to display proper input signal either 480 LINES or 768 LINES on Menu OSD when they are set using commands	2017, January
1.8.0 [8CAA987C]	Change of version number to share the firmware with other destinations	-
2.0.0 [45103BE3]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.1.0 [D3090CF7]	Correction of the problem that the email cannot be sent to a part of the mail server (SMTP) Correction of the problem that the value cannot be obtained with Brightness Adjustment command "SB*" by Schedule time Addition of the explanation about the recommended browser to Flash UI screen of Crestron Connected	2018, February
2.2.0 [C53CE33F]	Support for new ErP Lot5 (for Europe only) • The OSD initially activated has been changed. • Followings have been changed in case the OPERATION MODE is set to MODE1: - POWER MANAGEMENT is forcibly turned on. - NO SIGNAL on OSD is changed - Standby mode is activated automatically after 5 minutes without any signal. Modification of the failure to reconnect to Crestron Connected server which occurred while disconnecting/connecting to network during the connection via Crestron Connected feature.	None

(Release history of the scaler firmware)

Version [Checksum]	Detail	Action
1.003 [0000263B]	New release (for North America)	
1.010 [00003230]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of volume of sound being low while fixing AUDIO OUTPUT setting	2016, October
1.020 [000085B6]	Support for new release for Europe	2017, January
1.021 [000010AB]	Correction of the problem that the image on the 2nd set daisy-chained may partly be shifted when PC is recovered from Sleep mode,	-
2.000 [0000EC7A]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.001 [00000900]	Correction of the problem that the picture is not displayed properly on the 2nd set and subsequent sets that are daisy-chained in rare case	2018, February
2.006 [00002640]	Support for new ErP Lot5 (for Europe only)	None

(Release history of the power microcomputer firmware)

Version [Checksum]	Detail	Action
1.000 [F63D7793]	New release (for North America)	
1.007 [25ECAD12]	Support for new release for Europe	2017, January
1.008 [7B17F55E]	Change of version number to share the firmware with other destinations	-
2.000 [F94F3496]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.002 [059928FC]	Support for new ErP Lot5 (for Europe only)	None
2.003 [711A613A]	パワーマイコンの内蔵 ROM 容量変更対応	None

[PN-R556]

(Release history of the main firmware)

Version [Checksum]	Detail	Action
1.2.0 [795D26C4]	New release (for North America)	
1.3.0 [E1703CA0]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of resetting ANALOG GAIN and ANALOG OFFSET after executing reset for PICTURE settings while using any terminal other than D-sub	2016, September
1.7.0 [46095C5D]	Support for new release for Europe Correction of failure to recover power microcomputer firmware in case upgrading this firmware fails during the firmware upgrade using USB flash drive Correction of failure to display proper input signal either 480 LINES or 768 LINES on Menu OSD when they are set using commands	2017, January
1.8.0 [2A8E7085]	Change of version number to share the firmware with other destinations	-
2.0.0 [E25DAB69]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.1.0 [74449C7D]	Correction of the problem that the email cannot be sent to a part of the mail server (SMTP) Correction of the problem that the value cannot be obtained with Brightness Adjustment command "SB*" by Schedule time Addition of the explanation about the recommended browser to Flash UI screen of Crestron Connected	2018, February
2.2.0 [F193BB22]	Support for new ErP Lot5 (for Europe only) • The OSD initially activated has been changed. • Followings have been changed in case the OPERATION MODE is set to MODE1: - POWER MANAGEMENT is forcibly turned on. - NO SIGNAL on OSD is changed - Standby mode is activated automatically after 5 minutes without any signal. Modification of the failure to reconnect to Crestron Connected server which occurred while disconnecting/connecting to network during the connection via Crestron Connected feature.	None

(Release history of the scaler firmware)

Version [Checksum]	Detail	Action
1.003 [0000D2B3]	New release (for North America)	
1.010 [0000DEA8]	Modification of failure to display the time and date of abnormal temperature in SERVICE5 menu Modification of volume of sound being low while fixing AUDIO OUTPUT setting	2016, September
1.020 [0000643A]	Support for new release for Europe	2017, January
1.021 [0000EF2E]	Correction of the problem that the image on the 2nd set daisy-chained may partly be shifted when PC is recovered from Sleep mode,	-
2.000 [0000CBFE]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.001 [0000E883]	Correction of the problem that the picture is not displayed properly on the 2nd set and subsequent sets that are daisy-chained in rare case	2018, February
2.006 [000005C4]	Support for new ErP Lot5 (for Europe only)	None

(Release history of the power microcomputer firmware)

Version [Checksum]	Detail	Action
1.000 [CD7F69C2]	New release (for North America)	
1.007 [1EAEB343]	Support for new release for Europe	2017, January
1.008 [4055EB0F]	Change of version number to share the firmware with other destinations	-
2.000 [C20D2AC7]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.002 [3EDB36AD]	Support for new ErP Lot5 (for Europe only)	None
2.003 [9CD66BA9]	パワーマイコンの内蔵 ROM 容量変更対応	None

[PN-R606]

(Release history of the main firmware)

Version [Checksum]	Detail	Action
2.0.0 [C26D1B1E]	New release	
2.1.0 [5AE55CDD]	Correction of the problem that the email cannot be sent to a part of the mail server (SMTP) Correction of the problem that the value cannot be obtained with Brightness Adjustment command "SB**" by Schedule time Addition of the explanation about the recommended browser to Flash UI screen of Crestron Connected	2018, February
2.2.0 [39BD0FEF]	Support for new ErP Lot5 (for Europe only) • The OSD initially activated has been changed. • Followings have been changed in case the OPERATION MODE is set to MODE1: - POWER MANAGEMENT is forcibly turned on. - NO SIGNAL on OSD is changed - Standby mode is activated automatically after 5 minutes without any signal. Modification of the failure to reconnect to Crestron Connected server which occurred while disconnecting/connecting to network during the connection via Crestron Connected feature.	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production

(Release history of the scaler firmware)

Version [Checksum]	Detail	Action
2.000 [00001FA5]	New release	
2.001 [0000AD68]	Correction of the problem that the picture is not displayed properly on the 2nd set and subsequent sets that are daisy-chained in rare case	2018, February
2.006 [0000D736]	Support for new ErP Lot5 (for Europe only)	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production

(Release history of the power microcomputer firmware)

Version [Checksum]	Detail	Action
2.000 [16E3FAE5]	New release	
2.002 [EA35E68F]	Support for new ErP Lot5 (for Europe only)	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production
2.003 [EFF1F29D]	パワーマイコンの内蔵 ROM 容量変更対応	Running change from August 2021 production

[PN-R706]

(Release history of the main firmware)

Version [Checksum]	Detail	Action
1.0.0 [0EFB40D1]	New release	
2.0.0 [23F9E47B]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.1.0 [BB71A3B8]	Correction of the problem that the email cannot be sent to a part of the mail server (SMTP) Correction of the problem that the value cannot be obtained with Brightness Adjustment command "SB*" by Schedule time Addition of the explanation about the recommended browser to Flash UI screen of Crestron Connected	2018, February
2.2.0 [9B3215D0]	Support for new ErP Lot5 (for Europe only) • The OSD initially activated has been changed. • Followings have been changed in case the OPERATION MODE is set to MODE1: - POWER MANAGEMENT is forcibly turned on. - NO SIGNAL on OSD is changed - Standby mode is activated automatically after 5 minutes without any signal. Modification of the failure to reconnect to Crestron Connected server which occurred while disconnecting/connecting to network during the connection via Crestron Connected feature.	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production

(Release history of the scaler firmware)

Version [Checksum]	Detail	Action
1.000 [00002198]	New release	
2.000 [0000F267]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.001 [00006A2B]	Correction of the problem that the picture is not displayed properly on the 2nd set and subsequent sets that are daisy-chained in rare case	2018, February
2.006 [000094F9]	Support for new ErP Lot5 (for Europe only)	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production

(Release history of the power microcomputer firmware)

Version [Checksum]	Detail	Action
1.000 [FB2C692F]	New release	
2.000 [E4E11245]	Correction of an error in the judgement of RGB range of HDMI input Correction of an error in the judgement of RGB range of DP output	2017, August
2.002 [18370E2F]	Support for new ErP Lot5 (for Europe only)	For Europe: From 1st unit of December 2020 production  For other destinations: Running change from December 2020 production
2.003 [3B55A3F2]	パワーマイコンの内蔵 ROM 容量変更対応	Running change from July 2021 production