Summary of PTZ Camera Control Protocol

Revision 1.01

September 2019

Panasonic

1．Introduction

Panasonic PTZ Camera called Integrated Camera has two way of remote control, Serial and IP.

And for IP, there is additional command for Web browser control.

This document summarizes each functions and characteristics.

[Definition of Series Name]

This document is described series name defined below, instead of individual model name

UE150 Series　AW-UE150

HE130 Series　AW-HE130/AW-HR140/AW-HN130

HE70 Series　AW-HE70/AW-UE70/AW-HN70/AW-UN70/AW-HE75

※　Other models not listed above are out of scope in this document.

2．Characteristics of each way of control

2.1：AW command via RS422

It allows camera control and status query.

It is the simplest way and less CPU load, which makes shorter command interval.

It is primary used for serial control from Panasonic Remote Camera Controller to Integrated Camera

Detail specification is downloadable from following URL:

UE150 Series, HE130 Series, and HE70 Series

https://eww.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE50_120_SERIAL/ConvertibleProtocol.pdf

2.2：AW command via IP

It allows camera control and status query.

It allows multi-camera control by using specific IP address through typical switching hub.

It also allows to control single camera from multiple controllers.

It allows to get camera status update or all camera status by single command.

It is primary used for IP control from Panasonic Remote Camera Controller to Integrated Camera

Detail specification is downloadable from following URL:

UE150 Series, HE130 Series, and HE70 Series

https://eww.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE50_120_IP/HDIntegratedCamera_InterfaceSpecifications-E.pdf

2:3：Web Control command via IP

Camera becomes a Web server and video streaming, camera control, initial setting, status acquisition, or others can be set by client device.

It is primary used for access and control from PC or Smart Phone to Integrated camera by using Web browser.

Detail specification is downloadable from following URL:

UE150 Series

https://eww.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/UE150_CGI/Supplement_for_Web_Control-UE150E.pdf

HE130 Series

https://eww.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE130_CGI/Supplement_for_Web_Control-V2.00E.pdf

HE40 Series

https://eww.pass.panasonic.co.jp/pro-av/support/content/guide/DEF/HE40_UE70_CGI/Supplement_for_Web_Control-UE70E.pdf

3. Summary of Function and Performance

Below two tables show support function of three ways, and test result of minimum command interval..

Item	AW via RS422	AW via IP	Web Control via IP
Pan/Tilt Control	Yes	Yes	-
Camera Control	Yes	Yes	-
Camera Status Update	Yes	Yes	-
All Camera Status Update by single command	-	Yes	-
Video Streaming Control	-	-	Yes
Network Protocol Setting	-	-	Yes
Authentication	-	-	Yes

Reference of minimum command interval (Condition: no streaming output, single camera and single controller)

Product Series	AW via RS422	AW via IP	Web Control via IP
UE150 Series	40ms	40ms	40ms
HE130 Series	45ms	80ms	40ms
HE70 Series	45ms	45ms	40ms

Note: This data is the test result under specific conditions. The numerical value is not guaranteed because it varies depending on the conditions. The response time varies depending on the number of connected devices and the type of command. Please set the command interval after sufficient confirmation under the actual system.

変更履歴

Revision	Item for modification	Issue date
1.00	Initial version	2019/8/28
1.01	Some URLs are changed. (Information of HE75 and UE150 has been updated.)	2019/9/24