

# PELCO "P" PROTOCOL

## GENERAL

This section describes the protocol used when sending commands to an Intercept Dome in the “P” version protocol. The protocol uses no parity, one start bit, eight data bits, and one stop bit. The recommended baud rate is 4800 (4800, 8, N, 1, 1).

## MESSAGE FORMAT

Byte	Value	Function
1	\$A0	STX (start transmission)
2	\$00 to \$1F	Address
3	Data byte 1	(see below)
4	Data byte 2	(see below)
5	Data byte 3	(see below)
6	Data byte 4	(see below)
7	\$AF	ETX (end transmission)
8	\$00-\$FF	Check Sum

Byte 1 is always \$A0

Byte 2 is the receiver address, set by DIP switch in the receiver

Byte 3-6, see below

Byte 7 is always \$AF

Byte 8 is an XOR sum of Bytes 1-7

The protocol is “zero indexed” so that the hexadecimal address sent in the protocol for the first receiver is \$00 which corresponds to address 1.

The bits within the “Data bytes” are broken up into two main groups. For Pan and Tilt commands, the functions are determined as follows:

## PAN AND TILT COMMANDS

[illegible]

## EXTENDED COMMAND SET

The extended command set will have bit 0 of data byte 2 set and will follow the format in the following table:

Command	Data byte 1	Data byte 2	Data byte 3	Data byte 4
Set Preset XX	00	03	00	01 to FF
Clear Preset XX	00	05	00	01 to FF
Go To Preset XX	00	07	00	01 to FF
Flip (rotate 180°)	00	07	00	21
Zero Pan Position	00	07	00	22
Remote Reset	00	0F	00	00
Zone Start	00	11	00	01 to 08
Zone End	00	13	00	01 to 08
Write char to screen	00	15	0 to 28	0 to 7F
Clear Screen	00	17	00	00
Alarm Ack	00	19	00	01 to 08
Zone Scan On	00	1B	00	00
Zone Scan Off	00	1D	00	00
Pattern Start	00	1F	00	00
Pattern Stop	00	21	00	00
Run Pattern	00	23	00	00
Zoom Lens Speed	00	25	00	00 to 03
Focus Lens Speed	00	27	00	00 to 03
STOP TIME 5S	00	03	00	46
STOP TIME 10S	00	03	00	47
STOP TIME 30S	00	03	00	48
AUTO TOUR SPEED 5 °/S	00	03	00	49
AUTO TOUR SPEED 60 °/S	00	03	00	4A
AUTO TOUR SPEED 120 °/S	00	03	00	4B
OSD OPEN/CLOSE	00	07	00	4B
CLEAR ALL PRESETS	00	03	00	4D
Call camera default	00	03	00	4E
STOP AUTO TOUR AND SCAN	00	07	00	60
BEGIN AUTO TOUR	00	07	00	4C
SET RIGHT LIMIT STOP	00	03	00	5D
Set Left Limit Stop	00	03	00	5C
ENTER OSD MENU	00	03	00	5F
BEGIN AUTO SCAN	00	07	00	63
Home (return to 0 pan position)	00	07	00	22
Flip	00	00	00	21