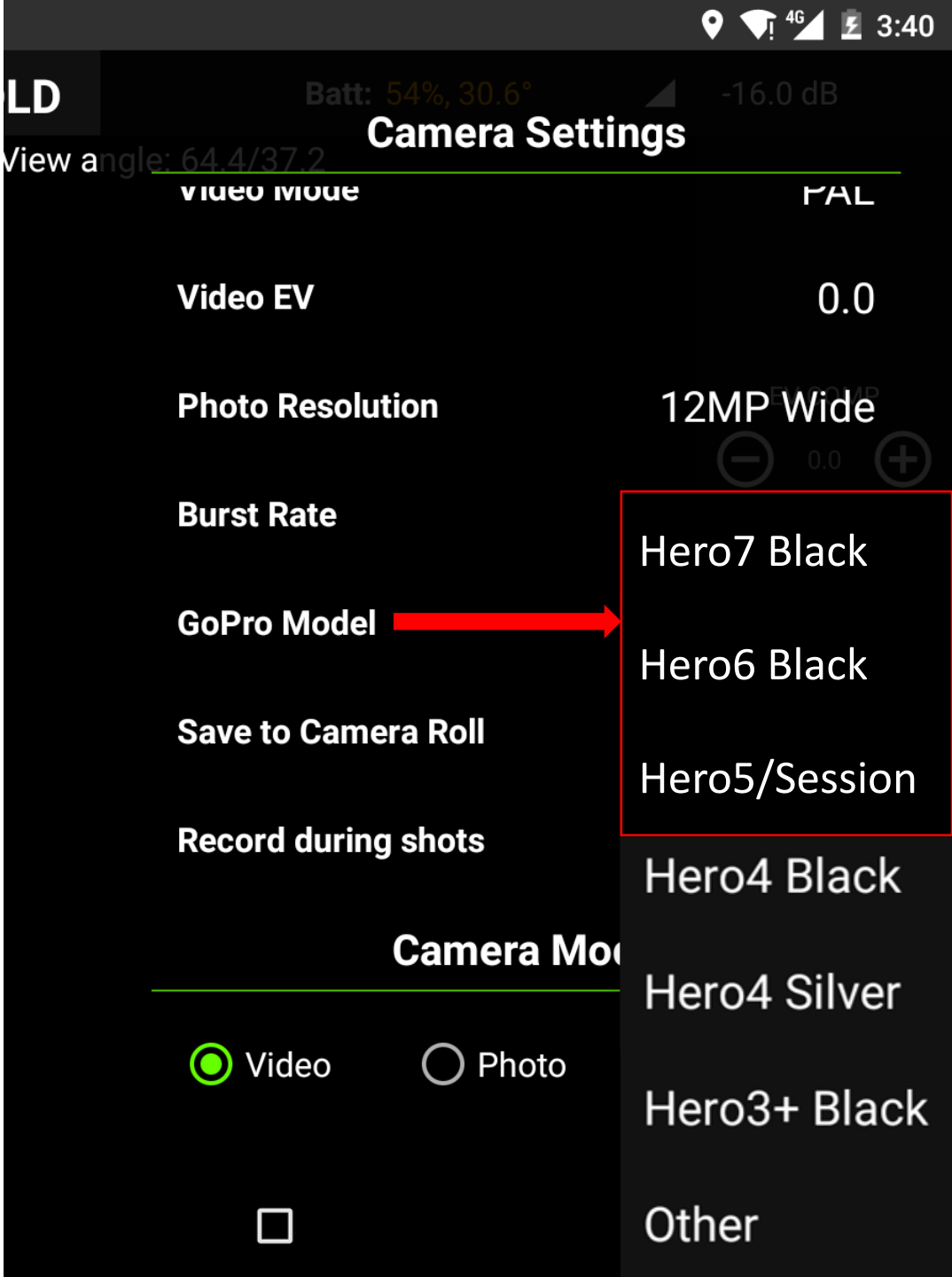# Solex Menu Extension Proposal for Gopro Hero 5/6/7 support

December 2018 Stephan Schindewolf

Add new Gopro Models to Menu

GoproManager.py sendState() will provide the following model number to Solex:

- Hero5/Session: 15
- Hero6:   16
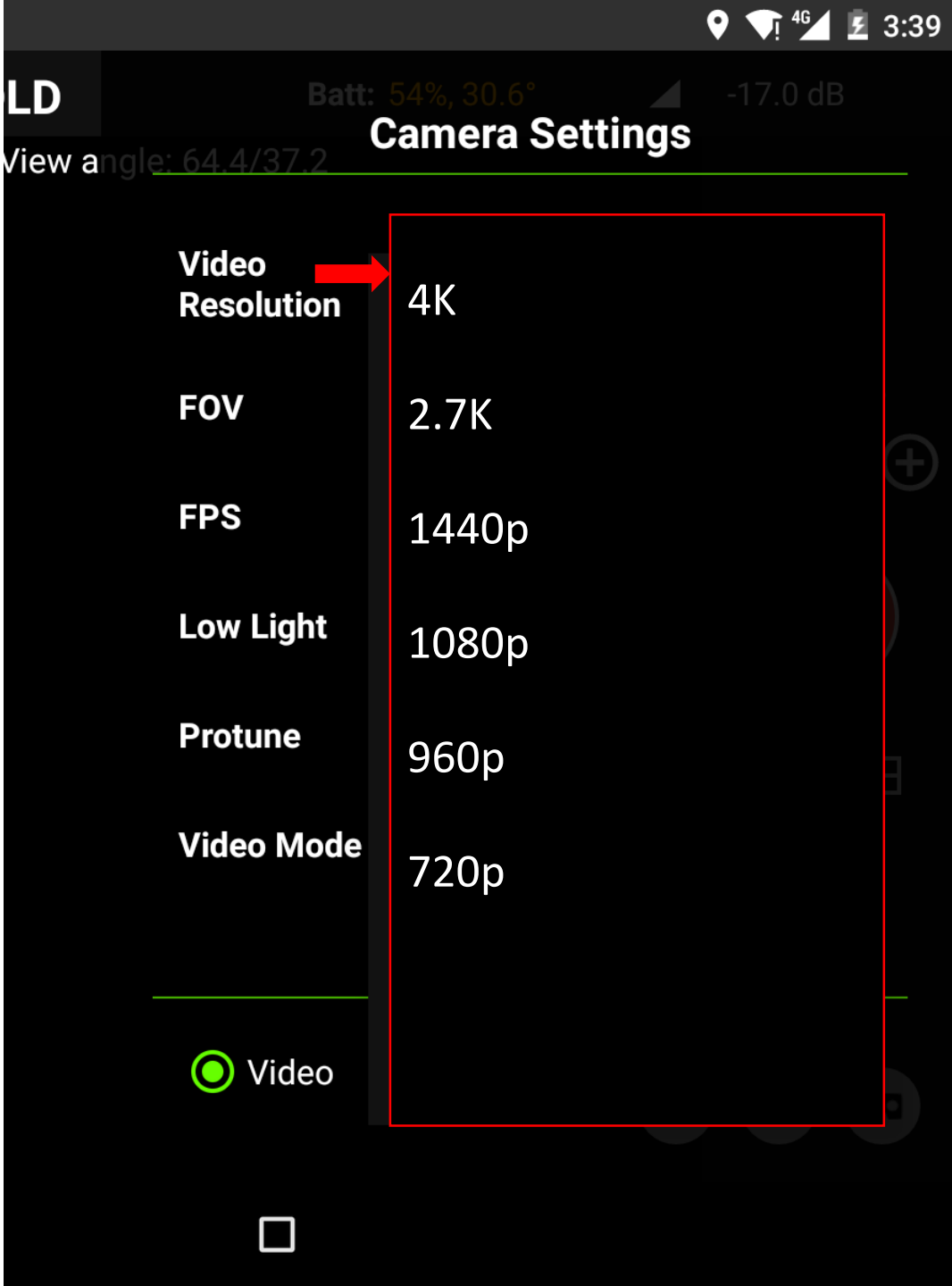- Hero7:   17

Add supported video resolutions for Hero 6 and 7 (Hero 5 requires the same menu as the Hero 4 black)

Parameters sent from Solex to gopromanager by app_packet.GOPRO_SET_EXTENDED_REQUEST(command, value0, value1, value2, value3)

Resolution	Command	Value 0	
4K	5	8	
2.7K	5	6	
1440p	5	4	
1080p	5	3	
960p	5	2	Not Hero 6
720p	5	1	

Command: Gopro command code
Value0:   Resolution stetting
Value1:   Frame Rate
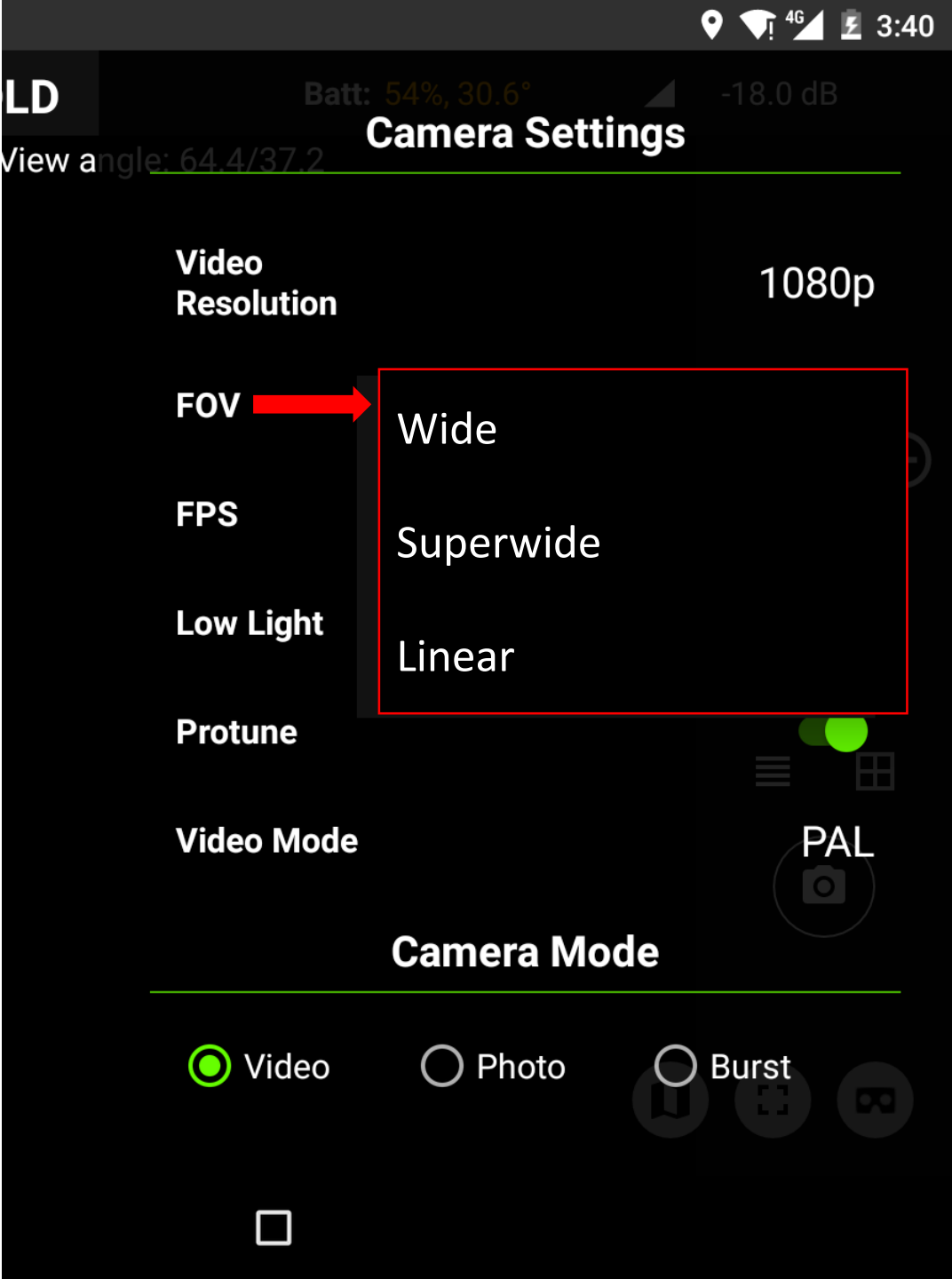Value2:   FOV
Value3:   NTSC/PAL (0/1)

Add supported video FOV for Hero 6 and 7
(Hero 5 requires the same menu as the Hero 4 black)

Parameters sent from Solex to gopromanager by
app_packet.GOPRO_SET_EXTENDED_REQUEST(command,
value0, value1, value2, value3)

FOV	value2	Comment
Wide	0	
Superwide	4	Only 4k, 2.7k, 1080p
Linear	3	Not 4k, 960p

Command: Gopro command code
Value0:   Resolution stetting
Value1:   Frame Rate
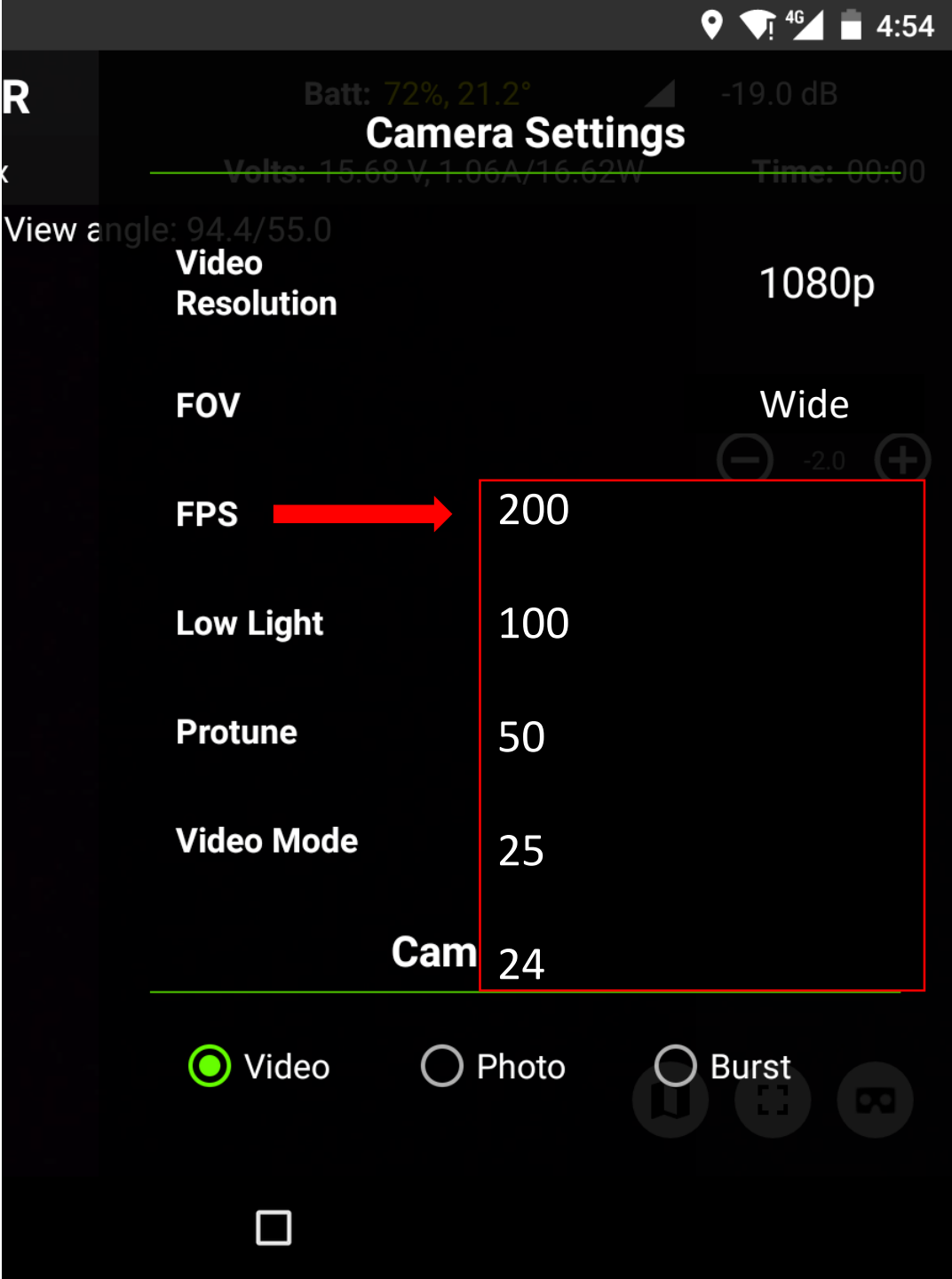Value2:   FOV
Value3:   NTSC/PAL (0/1)

Add supported video FOV for Hero 6 and 7
(Hero 5 requires the same menu as the Hero 4 black)

Parameters sent from Solex to gopromanager by
app_packet.GOPRO_SET_EXTENDED_REQUEST(command,
value0, value1, value2, value3)

FPS (NTSC/PAL)	value1	Comment
240/200	12	Only 1080p, 960p, 720p Hero 6: not 720p
120/100	11	Only 2.7k, 1440p, 1080p, 960p Hero 6: not 1440p
60/50	6	Not 960p
30/25	3	Not 960p, 720p
24/24	2	Not 960p, 720p

Command: Gopro command code
Value0:   Resolution stetting
Value1:   Frame Rate
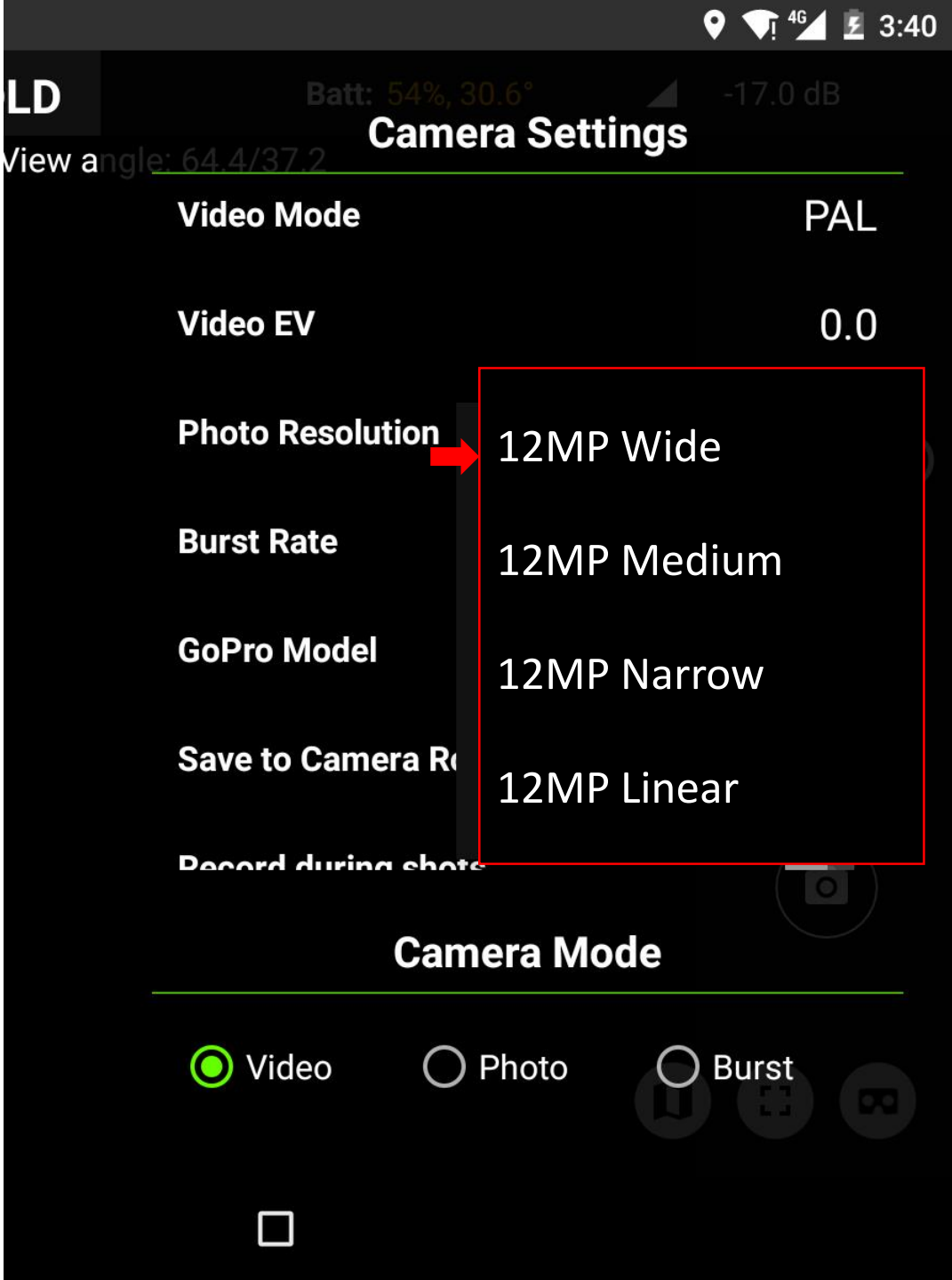Value2:   FOV
Value3:   NTSC/PAL (0/1)

Add supported photo resolution and FOV for Hero 5, 6 and 7

Parameters sent from Solex to gopromanager by
app_packet.GOPRO_SET_EXTENDED_REQUEST(command, value0, value1, value2, value3)

Resolution	Command	Value 0
12MP wide	7	4
12MP medium	7	6
12MP linear	7	5
12MP narrow	7	7

Command: Gopro command code
Value0:   Resolution/FOV stetting
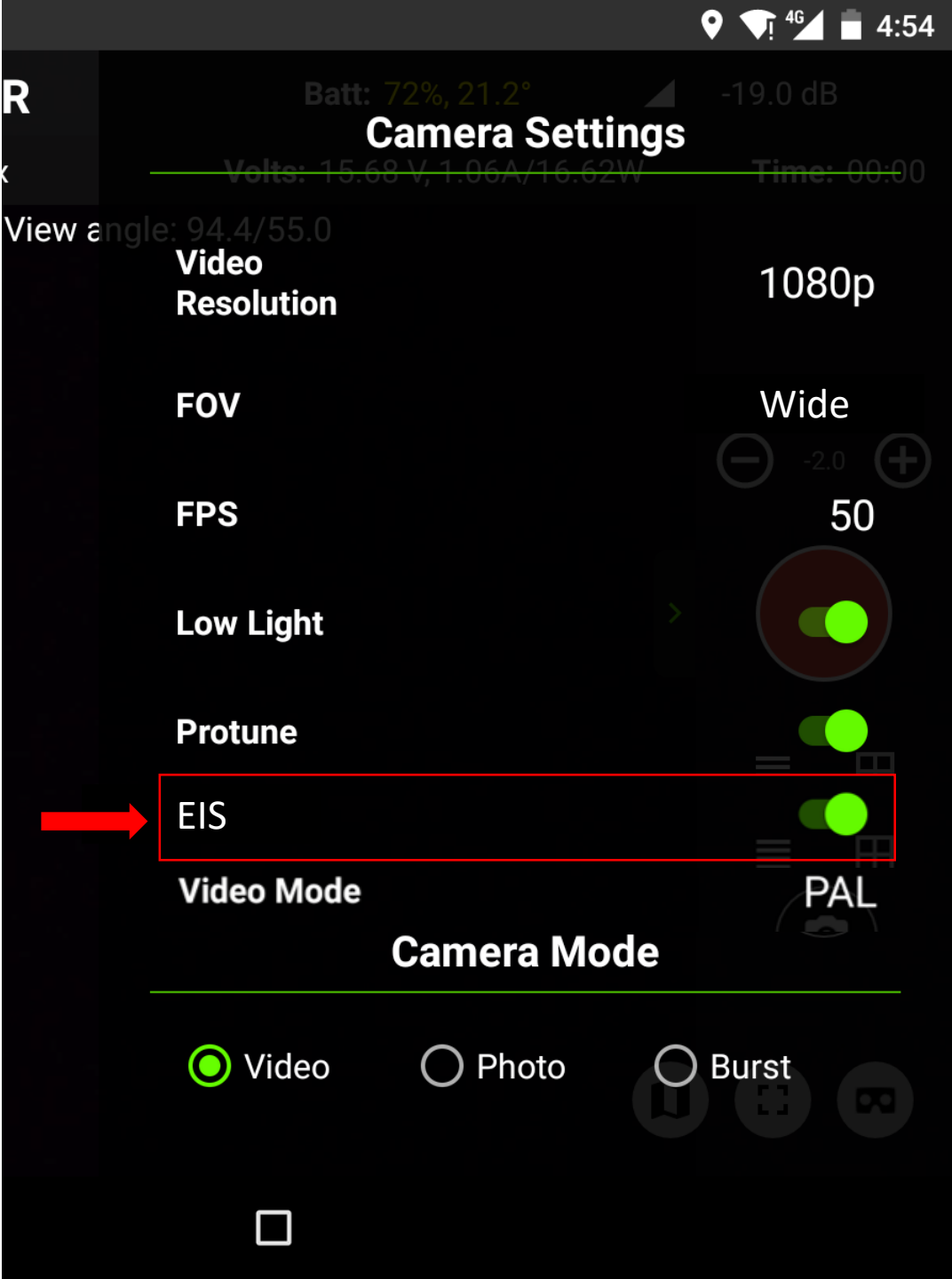Value1:   0
Value2:   0
Value3:   0

Add video stabilization for Hero 5, 6 and 7

Parameters sent from Solex to gopromanager by app_packet.GOPRO_SET_EXTENDED_REQUEST(command, value0, value1, value2, value3)

Setting	Command	Value 0
EIS on	18	1
EIS off	18	0

Command: Gopro command code
Value0:   setting on/off
Value1:   0
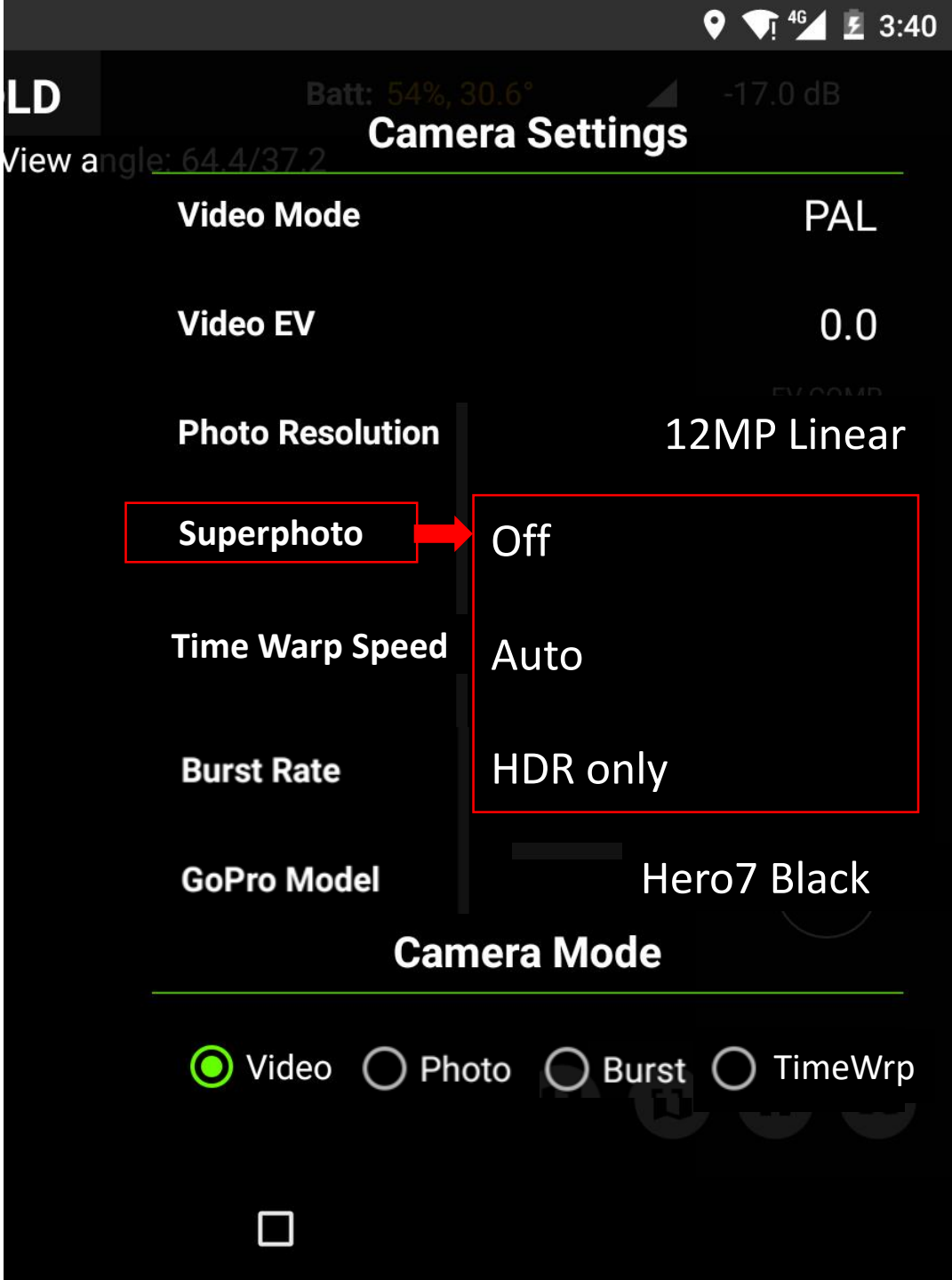Value2:   0
Value3:   0

Add Superphoto for Hero 7 only

Parameters sent from Solex to gopromanager by
app_packet.GOPRO_SET_EXTENDED_REQUEST(command, value0,
value1, value2, value3)

Setting	Command	Value 0
Superphoto auto	16	1
Superphoto off	16	0
HDR only	16	2

Command:	Gopro command code
Value0:	setting on/off
Value1:	0
Value2:	0
Value3:	0

Add Time Warp for Hero 7 only

Parameters sent from Solex to gopromanager by app_packet.GOPRO_SET_EXTENDED_REQUEST(command, value0, value1, value2, value3)

Setting	Command	Value 0
Video mode Time Warp (add new radio select button)	1	5
Time warp 2x	20	1
Time warp 5x	20	2
Time warp 10x	20	3
Time warp 15x	20	4
Time warp 30x	20	5

Command: Gopro command code
Value0:   setting
Value1:   0
Value2:   0
Value3:   0