Setup of Radio polarity in SPHD

Introduction:

The Shot Pro HD system has the capability to adjust polarity settings of Speaker & Microphone to enable smooth communication between Encoder & decoder. Polarity combination is required to avoid or bypass the radio interference. The SPHD polarity settings can be changed by logging to SPHD using Wi-Fi Web User Interface.

Steps to do:

1. Connect your computer using wifi to SPHD as shown below:

Wi-Fi			
On 🕥			
Current network			
ShotProHD8071 Connected without internet			
Available networks			
S HGS Lab			

2. Open the web browser and type in the IP address 192.168.1.1 into browser's address bar . Click Enter to load the page. It is recommended to add this 192.168.1.1 page to the browser's favorites.

	Shot Pro Configurat	tion Interl 🗙	
← → C ① Not secure	e 192.168.1.1		☆ \varTheta :
<u>SHOT</u>		Unit 10	Map 🕮
PRO <u>m</u>		Crew 1	Comm:
PFS	NEXT SHOT	SE	

3. Select Setup – parameters as shown below:

× A Shot Pro Configurati	on In	· «	0		:
SHO <u>T</u> PRO <u>P</u>	U C	nit 1 rew i	1		Map Comm:
PFS NEXT SHOT		MPORT		SETUP UNITS	WIFI
Operating mode:	Standard De	coder 🗸			
Decoder start delay:	0	IS			
Uphole blank time delay:	0 m	IS			
Uphole window delay:	0 m	IS			
Cap mode:	Orica	~			
Auto shutdown:	0 m	inutes			
First break threshold:	10% of peak	~			
Decoder interface:	Microphone Speaker norr Remote Fire Time Break a Recorder Sta Aux In active	normal pola mal polarity active high ~ active high ~ art active low low ~			
Geophone limits:	200	- 2000	Ω		
Cap limits:	0	- 20	Ω		
Decoder ready repeater ID:	0				
aved settings: Select one			Rem	ember the	se settings
Reset to defaults Reloa	ad			App	bly changes

4. For G3i System the default combination of Microphone / Speaker is "Normal" as shown below:

	Uni			
SHO <u>T</u> PRO <u>m</u>	Cre	it 1 ew 1		Map Comm:
PFS NEXT SHOT STATUS PARAMS ID			SETUP UNITS	WIFI
Operating mode:	Standard Decode	er 🗸		
Decoder start delay:	0 µs			
Uphole blank time delay:	0 ms			
Uphole window delay:	0 ms			
Cap mode:	Orica	~		
Auto shutdown:	0 minu	tes		
First break threshold:	10% of peak ~			
Decoder interface:	Microphone norm Speaker normal p Remote Fire active Time Break active Recorder Start ac Aux In active Iow	nal polarity ~ polarity ~ ve high ~ e high ~] etive low ~ ~		
Geophone limits:	200 - 20	Ω 000		
Cap limits:	0 - 20	Ω		
Decoder ready repeater ID:	0			
aved settings: Select one Reset to defaults Relo	ad	Rer	nember the	ese settings bly changes

5. If the Encoder / Decoder is not communicating with each other then we need to find suitable combination by changing the Microphone / Speaker polarity. Press "Apply Changes" as shown below.

Shot Pro Configuration	n In 쑥 🎵 🚦
SHO <u>T</u> PRO <u>m</u>	Unit ? Map D Crew ?
PFS NEXT SHOT	SETUP
STATUS PARAMS ID FLEET	
Operating mode:	A3 Repeater Encoder
Encoder start delay:	1000 ms
Encoder zero time adjust:	300 µs
Encoder radio reference delay:	0 μs
Recorder type:	Source Link ~
Encoder interface:	Microphone reverse polarity ~ Speaker reverse polarity ~ Remote Fire active high ~ Time Break active high ~ Recorder Start active low ~ Aux In active low ~ Auto Zero Time disabled ~
aved settings: Select one v	Remember these settings
Reset to defaults Reload	Apply changes

6. Enter Password as "ShotProHD" (case sensitive)



- 7. Make sure one settings of each Microphone / Speaker is changed once. Note the combination and test communication between Encoder / Decoder.
- 8. Note down the best combination of Speaker / Microphone polarity and make sure all decoders polarity settings are updated accordingly.
- 9. End