

Interim description for PR Purposes

1. AR-1 ANTENNA ROTOR.

This rotator is intended to work with all our magnetic loops antennas, Buddy Pole and similar lightweight directional antennas. It can be mounted using a camera type tripod or regular antenna tripods such as the Buddy-Pole™ tripod. It will work from 9-12 VDC or an internal battery.

2. HG-2 REMOTE CONTROLLER (tuner/rotator).

This controller is intended to remotely tune and rotate, using the AR-1 ANTENNA ROTOR, all our magnetic loop antennas. It also replaces the existing HG-1 remote tuner controller. It will work from 9-12 VDC or an internal battery.

3. MLT-1 MAG LOOP “L Network” Antenna Tuner.

It is a small lightweight universal feed-line matching manual tuner for those using magnetic loop antennas without an automatic antenna tuner.

4. HG-1 WR REMOTE TUNER (water resistant).

It is intended for permanent deployment of a magnetic loop antenna in the outdoor environment, It uses the LMR600 radiation loop which is identical to our HG-1 magnetic loop antennas. It will tune 40 through 10-meter ham bands at 45W PEP max and optionally, 80-60 meter ham bands at 10W PEP.

5. DPM6000A Digital Power Meter.

While not an antenna product, it is useful for SWR, impedance and QRP measurements, for dedicated antenna experimenters, enthusiasts and home-brew measurement applications. It is a major upgrade to our existing DPM6000 Digital Power Meter.

All these products have been designed and beta tested. We are ramping up manufacturing. We still need to determine price and packaging. We intend to announce all these products as a product line at once this spring.

New Task		Long lead time		Critical path item		Task Completed	
Task #	Description	Worker	Prior Task	Duration (days)	Required (date)	Done (date)	Comments SeaPac May31-Jun2
<b>AR-1 ANTENNA ROTOR</b>							
R1	Design	Rob				2/25/19	
R2	Build 10 prototypes	Rob				2/25/19	
R3	Seal thread & Cat 5 Cable connection	Rob	R1	1	Mar15	4/5/19	Rework first 10 - waterproof
R3A	Select cable gland to seal Cat 5 cable connection	Rob		1	Mar 16		Possible solution for watertight interface
R4	Rework Buddy Pole mast thread	Rob	R1	3	Mar25		Rework for cosmetic fit
R5	Manufacture 40 units	Rob	R1 R2	10	April 1		
R6	Select Cat 5 cables	Rob		.5	April 1	3/5/19	Confirm with Rob
R7	Order Cat 5 cables	Audrie		.5	April 1	3/5/19	
R8	Select mast clamps	Roger		.5	April 1		For universal TV mast mount

R9	Tripod adaptor	Rob		1	April 1		Mount on larger tripod
R10	BOM	Rob		1	Mar 25	Mar 15	
R11	Order mast clamps	Audrie		1	Mar25		
R12	Photo Session	Roger	R-1-11	3			
R13	Write Manual Text	Roger Florene		5	May20		
R14	Design Brochure	Roger Florene		4	May19		
R15	Data Sheet	Roger Florene		2	May20		
R16	Select Package Components	Roger		1	May20		
R17	Price Package	Roger		.5	May20		
R18	Press release	Roger Florene		1	May25		
R19	Place Advertising	Roger		2	May25		
R20	Show Collateral	Roger		5	May25		
R21	Update Web Page	Roger		2	May25		
R22							
R23							
R24							
R25							
R26							
R27							
<b>HG-2 REMOTE CONTROLLER (tuner/rotator)</b>							
C1	Design Electrical	Roger				2/25/19	
C2	Design Mechanical	Rob				2/25/19	
C3	Order enclosure	Audrie				2/25/19	Polycase
C4	Order current limits board & components	Audrie				2/25/19	
C5	Assemble current limit boards test run	Audrie				2/26/19	
C6	Order PW driver boards	Audrie		1		3/5/19	
C7	Order cases	Audrie				2/25/19	
C8	Rework case covers	Rob				3/2/19	
C8A	Submit design drawings for new case cover	Rob Audrie		1	Before more are ordered		Polycase Order Parts as needed
C9	Order new case covers	Audrie		2	Before stock depletion	3/5/19	

C10	Manufacture 50 units	Audrie		6	5/1/19		
C11	Test Controller	Roger				2/26/19	
C12	Photo Session	Roger	C1-C11		May20		
C13	Write Manual Text	Roger Florene		3	May20		
C14	Design Brochure	Roger Florene		3	May20		
C15	Data Sheet	Roger Florene		2	May20		
C16	Select Package Components	Roger			May20		
C17	Price Package	Roger		1	May20		
C18	Press release	Roger Florene		2	May20		
C19	Place Advertising	Roger		3	May20		
C20	Show Collateral	Roger		2	May20		
C21	Update Web Page	Roger		1	May20		
C22	BOM	Rob			Mar 15		
C23							
C24							
C25							
C26							
C27							
<b>MLT-1 MAG LOOP "L-Network" Antenna Tuner</b>							
M1	Design Electrical	Roger				2/20/19	
M2	Silkscreen	Roger				2/20/19	
M3	Order enclosure	Audrie				2/20/19	Polycase
M4	Order boards	Audrie				2/20/19	
M5	Order components	Audrie			Mar 5		
M6	BOM	Rob		1	Mar 5	Mar 16	Sentt to Audrie
M7	Manufacture 40 units	Audrie		1	Mar 15		
M8	Photo Session	Roger	M1-M7	2	Mar 16		
M9	Write Manual Text	Roger Florene		5	Mar 5		
M10	Design Brochure	Roger Florene		4	Mar 16		Florene to proofread
M11	Data Sheet	Roger Florene		2	Mar 15		
M12	Select Package Components	Roger		1	Mar 16		

M13	Price Package	Roger		.5	Mar 16		
M14	Press release	Roger Florene		1	Mar 16		
M15	Place Advertising	Roger Florene		2	Mar 16		
M16	Show Collateral	Roger		5	Mar 25		
M17	Update Web Page	Roger		2	May 10		
M18							
M19							
M20							
M21							
M22							
<b>HG-1 WR REMOTE TUNER (water resistant)</b>							
W1	Design	Rob				2/20/19	
W3A	Select Gland to seal Cat 5 cable connection	Rob		1	Mar3		Possible solution for watertight interface
W2	Quote for enclosure & preliminary order for 50 units	Audrie				2/20/19	Polycase
W2A	Alert vender to possible drawing update for enclosure	Audrie					Gland selected and purchased in stock for HG- 1WR
W2B	Approve case for productions	Roger Rob Audrie				Mar13	Polycase at Vendor for Manufacturing
W3	Order boards	Audrie				2/22/19	
W4	Order components	Audrie		2	Feb 26		
W5	BOM	Rob		1	Feb 26	Mar 16	Audrie has it
W6	Manufacture 25 units	Audrie		15	Mar 18		
W7	Photo Session	Roger	M1- M6	2	Mar 20		
W8	Write Manual Text	Roger Florene		5	Mar25		
W9	Design Brochure	Roger Florene		4	Mar25		
W10	Data Sheet	Roger Florene		2	Mar30		
W11	Select Package Components	Roger		1	Mar25		
W12	Price Package	Roger		.5	Mar25		
W13	Press release	Roger		1	May1		
W14	Place Advertising	Roger		2	May1		

		Florene					
W15	Show Collateral	Roger Florene		5	May1		
W16	Update Web Page	Roger		2	May10		
W17							
W18							
W19							
W20							
<b>Universal 80-60 Resonator (replaces the separate 80m and 60 m resonator)</b>							
M1	Design	Roger			Mar 15		
M2	Silkscreen	Roger			Mar 17		
M3	Submit Sample	Audrie			Mar 18		Polycase
M4	Order cases	Audrie			Mar 25		Polycase
<b>DBC MR Common Mode Balun (silk-screening only)</b>							
B1	Silkscreen Artwork	Roger			Mar 17		
B2	Order Cases	Audroe			Mar 18		Polycase
B3							
B3							
<b>DPM6000A Power Meter</b>							
D1	Design	Roger				1/12/18	
D2	BOM	Rob				1/12/18	
D3	Order Boards	Audrie				1/12/18	
D4	Build proof	Done				2/22/19	
D5	Test	Roger				2/26/19	
D6	R49.9 Ohm rework	Audrie		1	Mar5		Rework first 25 units
D7	Rework Silkscreen Panels	Rob	D7A, D7B	14	Mar15		Rob Will check status.
D7A	Ship DPM6000A front panels to Anthony at Hill Manufacturing	Audrie		1	Mar 5		For silk screen rework
D7B	Remove DPM6000A (eval unit) front panel for rework	Roger		1	Mar 5	3/3/19	For silk screen rework
D8	Photo Session	Roger	D7	2	Mar16		
D9	Write Manual Text	Roger		5	Mar16		
D10	Price Package	Roger		.5	Mar16		
D11	Press release	Roger		1	Mar25		
D12	Place Advertising	Roger		2	May5		
D13	Show Collateral	Roger		5	May5		
D14	Update Web Page	Roger		2	May10		
D15							
D16							
D17							

**Upgrade Online Store Website Theme**

O1	Review Requirements	Roger Audrie			Mar20		
O2	Create Test URL	Travis			Mar20		Not needed
O3	Select Theme	Roger Travis			Mar25		Note needed
O4	Populate Theme	Travis Roger			Mar30		Use existing theme
O5	Test Theme	Audrie Rob Roger Travis Florene			Apr10		
O6	Announce	Roger			May1		
O7							
O8							
O9							

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