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# QUICK INSTALL GUIDE

Model:

## 5.8 GHz Cable Sender



### Contents

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- 2. Panel Control and Function .....
- 3. Setup Guide .....
- 4. Orient Transmitter/Receiver for optimal performance.....
- 5. Specification.....

### 1. Package Content

Check to make sure that all units shown as below are enclosed. If something missed, please contact your dealer.

- 1. 5.8GHz Transmitter \* 1



- 2. 5.8GHz Receiver \* 1

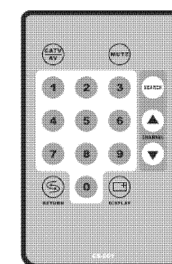


UHF: 433.92MHz

- 3. IR Mouse \* 1 / fasten strips \* 2



- 4. IR Remote Controller \* 1



## 5. Accessories

(1) Power Adapters (120V) \* 2



(2) RCA Cable \* 2

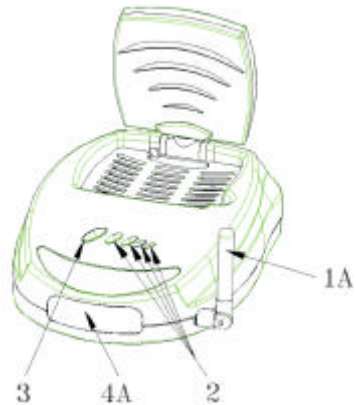


(3) Co-axial T-plug

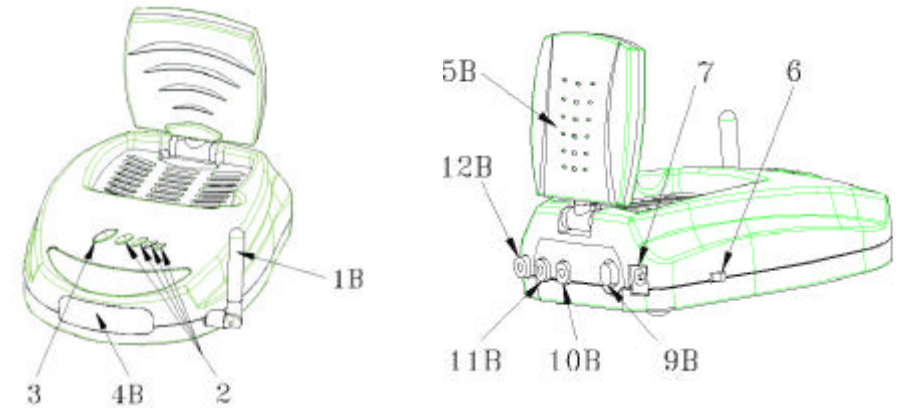
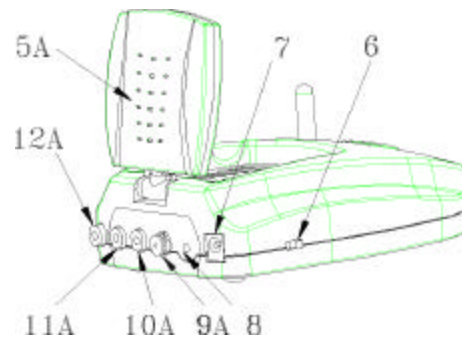
(4) Co-axial cable

## 2. Panel Control and Function

### 5.8GHz Transmitter



### 5.8GHz Receiver



1A – UHF antenna receives remote control signal.

1B – UHF antenna sends remote control signal.

2 – Indicator lights show the channel it configured as.

3 – Channel selection button to find optimal reception, the transmitter and receiver must be configured as the same channel.

4A – Remote control window sends IR rays, to remotely control the source AV equipment.

4B – Remote control window receives IR rays from remote controller.

5A – Directional 5.8GHz A/V antenna sends A/V signal from source equipment.

5B – Directional 5.8GHz A/V antenna receives audio and video signal.

6 – Power on/off switch.

7 – DC power input, connect to power supply. (9V).

8 – IR Mouse output, to remotely control source AV equipment.

9A –CABLE IN (75 $\Omega$ ), CATV Cable in.

9B – No available (To TV)

10A–Video Jack, (yellow), input from source AV equipment.

10B–Video Jack, (yellow), output to TV.

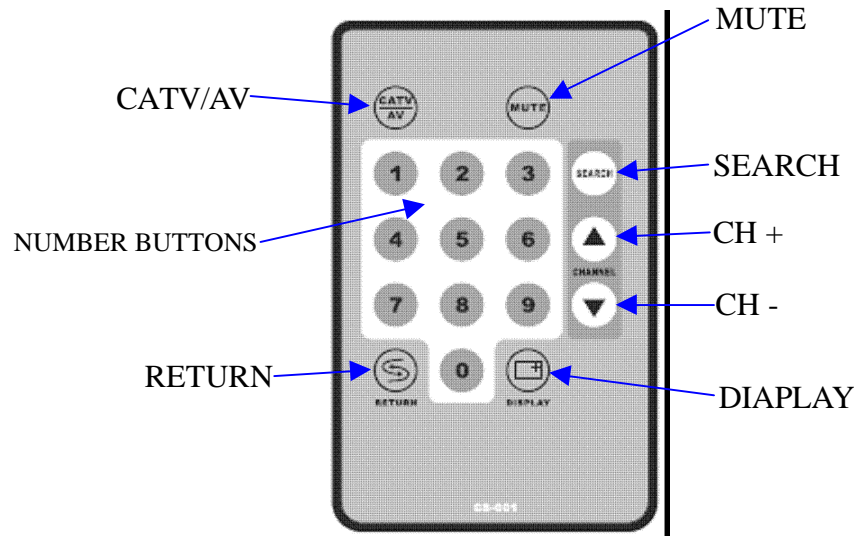
11A–Audio Jack, Right (red), input from source AV equipment.

11B–Audio Jack, Right (red), output to TV.

12A–Audio Jack, Left (white), input from source AV equipment.

12B–Audio Jack, Left (white), output to TV.

### IR Remote Controller



- 1 CATV/AV : For switching Video signal and cable TV channels
- 2 CH + / CH - : For paging up and down through the cable TV Channels
- 3 SEARCH : Automatic search tuning for cable TV and memorize it
- 4 MUTE : Silent
- 5 DISPLAY : Displays the selected mode : Channel number or AV
- 6 RETURN : Switching back to the channel last selected
- 7 NUMBER BUTTONS : TV channel selection

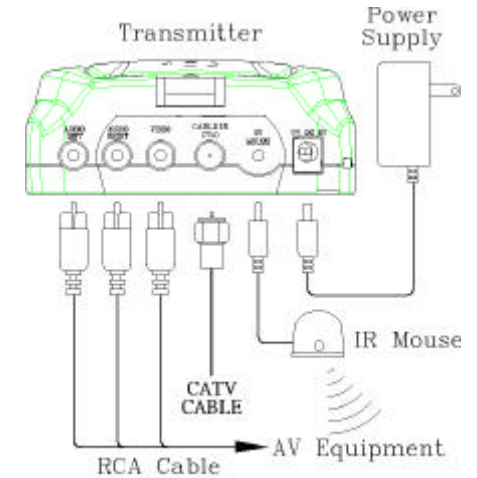
## 3. Setup Guide

- 3.1 To enjoy a life of wireless video and audio, just connect the transmitter to any A/V source you like and CATV cable, and connect the receiver to a TV, monitor or speaker in another location.

NOTE: Make sure the ON/OFF switch is in the 「OFF」 position before connection

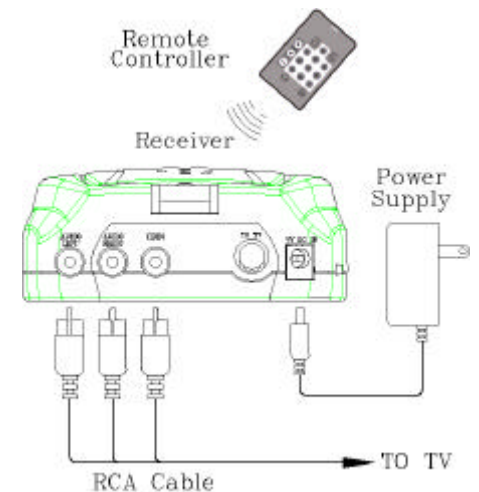
### Transmitter

1. Connect one end of the RCA cable to the audio and video jacks, and connect the other end to a source device via its “AV output”.
2. Connect the CATV cable to the Cable IN jack.
3. Connect the DC plug of the adapter to the DC jack, and connect the power supply to an outlet.
4. Fix IR mouse next to or in front of IR sensor of source device, or alternatively have transmitter facing directly toward the source



### Receiver

1. Connect one end of the RCA cable to the audio and video jacks and connect the other end to a TV (or monitor, speakers) via its “AV input”.
2. Connect the DC plug of the adapter to the DC jack, and connect the power supply to an outlet.
3. Keep the IR window oriented toward front when using your source device remote controller.



3.2 After setup your transmitter and receiver , the first time to enjoy CATV on Cable Sender , It needs to scan and find the available channels ,please follow procedure below :

- The first step : turn on your TV set and Switch to AVIN.
- The step 2 : power on the cable sender (Transmitter and Receiver ) and select the same channel you like .
- The step 3 : push “CATV/AV “ button on IR Remote Controller to switch Cable Sender to CATV mode.
- The step 4 : **Programming the cable tuner** using “search” button on IR Remote Controller to automatic scan and find the available channels , and memorize it.
- The step 5 : Using CH+/CH- button on IR Remote Controller for paging up/down channel , using “NUMBER” button to select TV channel you like.

#### 4. Orient Transmitter/Receiver for optimal performance

For optimal performance, both the audio/video and remote control antennas should be carefully oriented as described below. For maximum transmitting range, try to minimize obstacles (e.g. your TV or other electronics, large furniture) where between the transmitter and receiver.

##### Orients the 5.8GHz A/V Antennas

The system delivers high-quality audio and video by using directional antennas, which must be oriented in the best ways. The antennas are designed to be able to vertically and horizontally pivot and rotate in almost any direction.

In most situations, the flat-pitted face of the antennas on both the transmitter and receiver should be facing one another and perpendicular (at a right angle) to an

imaginary line drawn between the two units. Three examples are shown as Fig-1, Fig-2 and Fig-3. Since all homes are different, for optimal reception, additional slight pivots or rotations may be necessary. If the transmitter and receiver are less than 10 feet apart, suggest that the antennas are lying on their casings since the distance is so short.

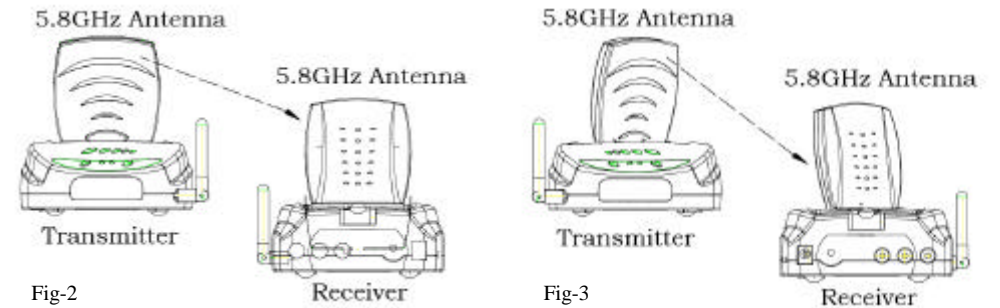


Fig-2

Fig-3

##### Orients the UHF Antennas

In order to obtain optimal performance of the remote control extender, the remote control antennas should also be oriented at a right angle to an imaginary line drawn between the transmitter and receiver. If your remote control extender is not working satisfactorily, rotate the remote control antenna on either the transmitter or receiver 90 degrees so that it is still perpendicular to the path between the units. (See Fig-4)

If you notice improved performance, keep this orientation. Rotating the antenna on both units should have no effect.

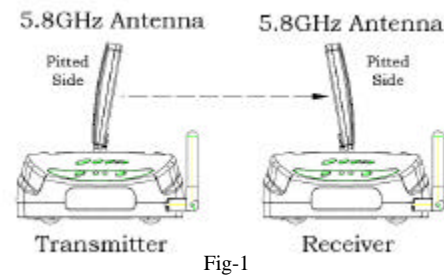


Fig-1

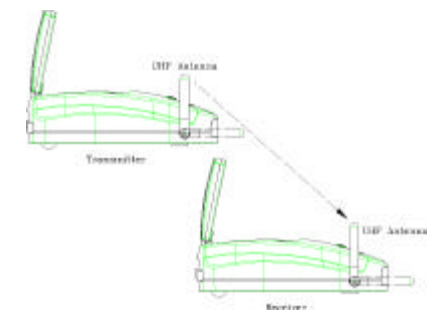


Fig-4

## 5. Specification

### 5.1 Transmitter

#### 5.1.1 General specification

Input Voltage	DC 9V $\pm 0.5V$
Current Consumption	< 350mA
Antenna Type	Patch (34 * 34mm)
Operation temperature & humidity	0 ~ +50 less than 85%
Storage temperature & humidity	-20 ~ +70 less than 90%

#### 5.1.2 Electrical specification

RF		
Output power @ connector	+0 dBm MIN	
Modulation Type	FM	
RF Deviation ( FM )	6.4MHz <sub>peak to peak</sub>	
Channel Frequency	CH1	5745MHz
	CH2	5765MHz
	CH3	5785MHz
	CH4	5805MHz
Channel Selection	Tact Switch	
Frequency Stability	$\pm 50$ KHz	
Output Flatness	0 ~ +3dB	
Video		
Input Level	1V <sub>peak to peak</sub>	
Impedance	75 ohms	
Pre-Emphasis	NTSC	
D.G.	< $\pm 8\%$	

D.P.	< $\pm 8\%$	
Audio		
Input Level	1.4V <sub>peak to peak</sub>	
Impedance	600 ohms	
Frequency Response	30Hz ~ 12KHz	
Audio Carrier Frequency ( L )	6.0MHz $\pm 5$ KHz	
Audio Carrier Frequency ( R )	6.5MHz $\pm 5$ KHz	
Audio Distortion	3% max. THD	
AM Rejection	40dB min.	

### 5.2 Receiver

#### 5.2.1 General specification

Input Voltage	DC 9V $\pm 0.5V$
Current Consumption	< 400mA
Antenna Type	Patch (34 * 34mm)
Operation temperature & humidity	0 ~ +50 less than 85%
Storage temperature & humidity	-20 ~ +70 less than 90%

#### 5.2.2 Electrical specification

RF		
Input Frequency Range	5745 ~ 5805MHz	
Input Level @ connector	-25 ~ -80dBm	
IF Frequency	479.5MHz	
IF Bandwidth	18MHz	
Gain Flatness	3dB max.	
Noise Figure	2dB Typical	
Input Return Loss	7dB Typical	
LO. Drift	$\pm 50$ KHz	

	LO. Leakage	-50dBm max.
	Image Rejection	40dB
Video		
	Output Level	1V $\pm 0.15V_{p-p}$ Load.
	Impedance	75 ohms
	De-Emphasis	NTSC
	D.G.	< $\pm 8\%$
	D.P.	< $\pm 8\%$
	Video S/N Ratio	38dB min.
Audio		
	Output Level	1V <sub>p-p</sub> $\pm 0.2$
	Impedance	600 ohms
	Frequency Response	30Hz ~ 12KHz

### 5.3 TV Tuner : OSD ENGE630XD(VP-27S)

#### 5.3.1 Channel

(VHF): Band I ch. 2  $\rightarrow$  I (fp=55.25  $\rightarrow$  169.25MHz)

Band II ch. 7  $\rightarrow$  EEE (fp=175.25  $\rightarrow$  463.25MHz)

(UHF): Band III ch.FFF  $\rightarrow$  69 (fp= 469.25  $\rightarrow$  801.25MHz)

#### 5.3.2 Receiver System : NTSC

#### 5.3.3 Input System : U/V terminals 75 ohm Unbalance

### 5.3.4 Channel Table

CLASSIFICATION		TARGET SPECIFICATION				No. 151-ENG-	
SUBJECT		RF FRONT-END SYSTEM UNIT				PAGE: 17 of 19	
		VP-27S ENGE630XD				DATE: 2002-NOV-08	
Channel	Freq. Range (MHz)	Picture Carrier (MHz)	fosc (MHz)	Channel	Freq. Range (MHz)	Picture Carrier (MHz)	fosc (MHz)
2	54 - 60	55.25	101	GG	336 - 342	337.25	360
3	60 - 66	61.25	107	HH	342 - 348	343.25	366
4	66 - 72	67.25	113	II	348 - 354	349.25	372
5A	72 - 78	73.25	119	JJ	354 - 360	355.25	378
5	76 - 82	77.25	123	KK	360 - 366	361.25	384
6	82 - 88	83.25	129	LL	366 - 372	367.25	390
A-5	90 - 96	91.25	137	MM	372 - 378	373.25	396
A-4	96 - 102	97.25	143	NN	378 - 384	379.25	402
A-3	102 - 108	103.25	149	OO	384 - 390	385.25	408
A-2	108 - 114	109.25	155	PP	390 - 396	391.25	414
A-1	114 - 120	115.25	161	QQ	396 - 402	397.25	420
A	120 - 126	121.25	167	RR	402 - 408	403.25	426
B	126 - 132	127.25	173	SS	408 - 414	409.25	432
C	132 - 138	133.25	179	TT	414 - 420	415.25	438
D	138 - 144	139.25	185	UU	420 - 426	421.25	444
E	144 - 150	145.25	191	VV	426 - 432	427.25	450
F	150 - 156	151.25	197	WW	432 - 438	433.25	456
G	156 - 162	157.25	203	AAA	438 - 444	439.25	462
H	162 - 168	163.25	209	BBB	444 - 450	445.25	468
I	168 - 174	169.25	215	CCC	450 - 456	451.25	474
7	174 - 180	175.25	221	DDD	456 - 462	457.25	480
8	180 - 186	181.25	227	EEE	462 - 468	463.25	486
9	186 - 192	187.25	233	FFF	468 - 474	469.25	492
10	192 - 198	193.25	239	14	470 - 476	471.25	498
11	198 - 204	199.25	245	15'	474 - 480	475.25	504
12	204 - 210	205.25	251	15	476 - 482	477.25	510
13	210 - 216	211.25	257	16'	480 - 486	481.25	516
J	216 - 222	217.25	263	16	482 - 488	483.25	522
K	222 - 228	223.25	269	17'	486 - 492	487.25	528
L	228 - 234	229.25	275	17	488 - 494	489.25	534
M	234 - 240	235.25	281	18'	492 - 498	493.25	540
N	240 - 246	241.25	287	18	494 - 500	495.25	546
O	246 - 252	247.25	293	19'	498 - 504	499.25	552
P	252 - 258	253.25	299	19	500 - 506	501.25	558
Q	258 - 264	259.25	305	20'	504 - 510	505.25	564
R	264 - 270	265.25	311	20	506 - 512	507.25	570
S	270 - 276	271.25	317	21'	510 - 516	511.25	576
T	276 - 282	277.25	323	21	512 - 518	513.25	582
U	282 - 288	283.25	329	22'	516 - 522	517.25	588
V	288 - 294	289.25	335	22	518 - 524	519.25	594
W	294 - 300	295.25	341	23'	522 - 528	523.25	600
AA	300 - 306	301.25	347	23	524 - 530	525.25	606
BB	306 - 312	307.25	353	24'	528 - 534	529.25	612
CC	312 - 318	313.25	359	24	530 - 536	531.25	618
DD	318 - 324	319.25	365	25'	534 - 540	535.25	624
EE	324 - 330	325.25	371	25	536 - 542	537.25	630
FF	330 - 336	331.25	377	26'	540 - 546	541.25	636

CONFIDENTIAL  
MACO PROPRIETARY

MATSUSHITA ELECTRONIC COMPONENTS CO., LTD.  
Network Device Company.  
High Frequency Products Business Unit.

APPROVAL  
H.Hirano

CHECK  
H.Mori

DESIGN  
K.Shirono

CLASSIFICATION		TARGET SPECIFICATION		No.		151-ENG	
SUBJECT				RF FRONT-END SYSTEM UNIT		PAGE: 18 of 19	
				VP-27S ENGE630XD		DATE: 2002-NOV-08	
<b>CONFIDENTIAL</b>							
Channel	Freq. Range (MHz)	Picture Carrier (MHz)	fosc (MHz)	Channel	Freq. Range (MHz)	Picture Carrier (MHz)	fosc (MHz)
26	542 - 548	543.25	589	49	680 - 686	681.25	725
27	546 - 552	547.25	593	50	684 - 690	685.25	731
27	548 - 554	549.25	595	50	686 - 692	687.25	733
28	552 - 558	553.25	599	51	690 - 696	691.25	737
28	554 - 560	555.25	601	51	692 - 698	693.25	739
29	558 - 564	559.25	605	52	696 - 702	697.25	743
29	560 - 566	561.25	607	52	698 - 704	699.25	745
30	564 - 570	565.25	611	53	702 - 708	703.25	749
30	566 - 572	567.25	613	53	704 - 710	705.25	751
31	570 - 576	571.25	617	54	708 - 714	709.25	753
31	572 - 578	573.25	619	54	710 - 716	711.25	755
32	576 - 582	577.25	623	55	714 - 720	715.25	759
32	578 - 584	579.25	625	55	716 - 722	717.25	761
33	582 - 588	583.25	629	56	720 - 726	721.25	767
33	584 - 590	585.25	631	56	722 - 728	723.25	769
34	588 - 594	589.25	635	57	726 - 730	727.25	773
34	590 - 596	591.25	637	57	728 - 734	729.25	775
35	594 - 600	595.25	641	58	732 - 738	733.25	779
35	596 - 602	597.25	643	58	734 - 740	735.25	781
36	600 - 606	601.25	647	59	738 - 744	739.25	785
36	602 - 608	603.25	649	59	740 - 746	741.25	787
37	606 - 612	607.25	653	60	744 - 750	745.25	791
37	608 - 614	609.25	655	60	746 - 752	747.25	793
38	612 - 618	613.25	659	61	750 - 756	751.25	797
38	614 - 620	615.25	661	61	752 - 758	753.25	799
39	618 - 624	619.25	665	62	754 - 760	757.25	803
39	620 - 626	621.25	667	62	758 - 764	759.25	805
40	624 - 630	625.25	671	63	762 - 768	763.25	809
40	626 - 632	627.25	673	63	764 - 770	765.25	811
41	630 - 636	631.25	677	64	768 - 774	769.25	815
41	632 - 638	633.25	679	64	770 - 776	771.25	817
42	636 - 642	637.25	683	65	774 - 780	775.25	821
42	638 - 644	639.25	685	65	776 - 782	777.25	823
43	642 - 648	643.25	689	66	780 - 786	781.25	827
43	644 - 650	645.25	691	66	782 - 788	783.25	829
44	648 - 654	649.25	695	67	786 - 792	787.25	833
44	650 - 656	651.25	697	67	788 - 794	789.25	835
45	654 - 660	655.25	701	68	792 - 798	793.25	839
45	656 - 662	657.25	703	68	794 - 800	795.25	841
46	660 - 666	661.25	707	69	798 - 804	799.25	845
46	662 - 668	663.25	709	69	800 - 806	801.25	847
47	666 - 674	667.25	713	70			
47	668 - 674	669.25	715	71			
48	672 - 678	673.25	719	72			
48	674 - 680	675.25	721	73			
49	678 - 684	679.25	725	74			

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

The equipment has been tested and found to comply with the limits for a ClassB Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication.

MATSUSHITA ELECTRONIC COMPONENTS CO., LTD.  
Network Device Company.  
High Frequency Products Business Unit.

APPROVAL	CHECK	DESIGN
H.Hirano	H.Mori	K.Shirono