

## OWI INC

### USER MANUAL

Model: IC5, IC6, IC570V40, IC570V10, IC670V10, IC6DVC

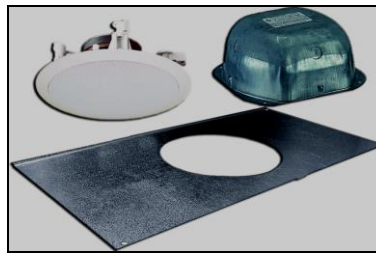
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Speaker Combination Models

IC5TBBC / IC6TBBC

IC570V04TBBC / IC570V10TBBC / IC670V10TBBC / IC6DVCTBBC



**OWI Incorporated**  
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## PROPRIETARY NOTICE

The OWI Inc. product information and design disclosed herein were originated by and are the property of OWI Inc. OWI Inc. reserves all patent, proprietary design, manufacturing, reproduction, use and sales rights thereto, and to any article disclosed therein, except to the extent right(s) are expressly granted to others.

## COPYRIGHT NOTICE

This manual is Copyright 2014 by OWI Inc. All rights reserved. Reproduction in whole or in part without written prior permission from OWI, Inc. is prohibited.

## UNPACKING AND INSPECTION NOTICE

Immediately upon receipt of the equipment, inspect the shipping container and the contents carefully for any discrepancies or damage. Should there be any, notify the freight company and OWI, Inc. or the dealer where purchased at once.

## LIMITED WARRANTY

1. This product has been thoroughly tested and inspected at the factory. It is warranted for one year from the date of purchase.  
IT IS THE OWNERS' RESPONSIBILITY TO ESTABLISH THE DATE OF PURCHASE BY ACCEPTABLE EVIDENCE AT TIME SERVICE IS SOUGHT.
2. Any unit, which in the judgment of OWI INC, is defective or develops defects under normal use will be replaced or repaired without cost within the warranty period.
3. This warranty will be considered void if the unit is dropped, misused, abused and altered in any manner, overdriven with excess amplification exceeding manufacturer's specification, improperly serviced or accidentally damaged.
4. OWI Inc. shall have no liability whatsoever for consequential damages. The sole responsibility at the discretion of OWI Inc. under this warranty shall be limited to the repair of the product or replacement thereof. Any and all implied warranties including the implied warranty of merchantability are limited to the duration of this express limited warranty.  
OWI, Inc. is NOT liable for incidental or consequential damages of any kind.
5. IMPORTANT: This warranty is void unless the attached card is completed and mailed to OWI Inc. within 10 days following the date of purchase. Units must be sent to OWI Inc. or to the dealer where purchased.

RETURN SHIPPING INSTRUCTIONS, Obtain a RETURN AUTHORIZATION from:  
OWI Inc., 17141 Kingsview Ave, Carson, CA 90746.  
Phone (310) 515-1900, Fax (310) 515-1606

FCC Notice: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or own expense.

Modifications not expressly approved by the manufacturer could void the user's authority to be operated under FCC rules.

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## IMPORTANT SAFETY INSTRUCTIONS

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### CAUTION



**RISK OF ELECTRIC SHOCK - DO NOT OPEN**



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**NOTE:** Installation is to be completed by a qualified electrical technician according to NEC/CEC code and applicable local codes.

**CAUTION:** The power supply is not to be used in air handling spaces.

**CAUTION:** To reduce the risk of electric shock: Do not remove the cover or back: No user-serviceable parts inside: refer servicing to qualified personnel.

The lightning flash with arrowhead within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

### IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions. All the safety and operation instructions should be read before this OWI product is operated.
2. Keep these instructions - The safety and operating instructions should be kept for future reference.
3. Heed all warnings - All warnings on this product and in these operating instructions should be followed.
4. Follow all instructions - All operating and other instructions should be followed.
5. Do not use this apparatus near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or a swamp.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions. - This OWI product should be situated so that its location or position does not interfere with its proper ventilation. For example, the component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings, or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.
8. Do not install the unit near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit the apparatus.
11. Only use attachment/accessories specified by the manufacturers.



**Portable Cart Warning**

12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. The user should not attempt to service this OWI product beyond those means described in this operating manual. All other servicing should be referred to the OWI Service Department.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can fully be inserted to prevent blade exposure.
17. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart. According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent a permanent hearing loss if exposure is in excess of the limits set forth here.
18. OWI recommends that this apparatus be placed on a switched power outlet, one that switches both sides and has contact separation of at least 3 millimeters.

**End of IMPORTANT SAFETY INSTRUCTIONS**

**MODEL IC5 / IC6 / IC6DVC**



**SPEAKER SPECIFICATIONS:**

	<b>MODEL IC5</b>	<b>MODEL IC6</b>	<b>MODEL IC6DVC</b>
<b>DESCRIPTION:</b>	5.25", 2-way, coaxial	6.5", 2-way, coaxial	6.5" multi voice coil woofer, dual tweeters, stereo ready
<b>COVERED OUTDOOR:</b>	Yes	Yes	Yes
<b>IMPEDANCE:</b>	8 ohms	8 ohms	8 ohms
<b>SENSITIVITY (1W/1M):</b>	85dB	86dB	86dB
<b>MAX SPL:</b>	95dB	96dB	96dB
<b>DISPERSION:</b>	120 degrees	120 degrees	120 degrees
<b>MAX POWER (8 Ohms)</b>	40 watts	50 watts	30 x 2 watts
<b>NOMINAL POWER (8 Ohms)</b>	20 watts	25 watts	25 watts
<b>POWER TAPS:</b>	NA	NA	
<b>FREQUENCY RESPONSE:</b>	80Hz ~ 20 kHz	65Hz ~ 20 kHz	65Hz-20KHz
<b>CROSSOVER:</b>	NA	NA	4KHz
<b>WOOFER SIZE:</b>	5.25"	6.5"	6.5"
<b>WOOFER MATERIAL:</b>	Paper, PP coated	Paper, PP coated	Paper, PP coated
<b>TWEETER SIZE:</b>	0.5"	0.5"	0.5"
<b>TWEETER MATERIAL:</b>	PEI	PEI	PEI
<b>GRILL MATERIAL:</b>	Aluminum	Aluminum	Aluminium
<b>OVERALL DIMENSIONS (Diameter X Height): Inches</b>	Φ7.95*3.15	Φ8.93*3.45	Φ8.94*3.74
<b>CUT OUT SIZE (Diameter): Inches</b>	Φ6.61	Φ7.68	Φ7.68
<b>WEIGHT: lbs.</b>	2.26	2.5	2.28
<b>MOUNTING HARDWARE:</b>	Mounting Clamps	Mounting Clamps	Mounting Clamps
<b>GIFT BOX DIMENSIONS (LxWxH): Inches</b>	18.2*8.7*3.7(Pair)	20.3*9.7*5.1(Pair)	9.7*9.5*4.7(each)
<b>GIFT BOX WEIGHT: lbs.</b>	5.65(Pair)	6.54(Pair)	3.17(each)
<b>MASTER CARTON DIMENSIONS (LxWxH): Inches</b>	18.8*17.9*12.2	20.9*20.1*16.5	19.8*19.8*10.7
<b>MASTER CARTON WEIGHT: lbs.</b>	37.2	43.7	28
<b>MASTER CARTON QUANTITY:</b>	6 pairs	6 pairs	8 each

**MODEL IC570V04 / IC570V10 / IC670V10**



**SPEAKER SPECIFICATIONS:**

	<b>MODEL IC570V04</b>	<b>MODEL IC570V10</b>	<b>MODEL IC670V10</b>
<b>DESCRIPTION:</b>	5.25", 70V, Full Range	5.25", 2-way, 70V, coaxial	6.5", 2-way, 70V, coaxial
<b>COVERED OUTDOOR:</b>	Yes	Yes	Yes
<b>IMPEDANCE:</b>	70/100 Volts	70/100/25 Volts	70/100/25 Volts
<b>SENSITIVITY (1W/1M):</b>	87dB	86dB	88dB
<b>MAX SPL:</b>	92dB	94dB	95dB
<b>DISPERSION:</b>	120 degrees	120 degrees	120 degrees
<b>POWER TAPS:</b>	0.5, 1, 2, 4 Watts	0.62, 1.25, 2.5, 5, 10 Watts	0.62, 1.25, 2.5, 5, 10 Watts
<b>FREQUENCY RESPONSE:</b>	100 Hz ~ 20 kHz	80Hz ~ 20 kHz	75Hz ~ 20 kHz
<b>CROSSOVER:</b>	NA	4kHz	4kHz
<b>WOOFER SIZE:</b>	5.25"	5.25"	6.5"
<b>WOOFER MATERIAL:</b>	Paper	Paper, PP coated	Paper, PP coated
<b>TWEETER SIZE:</b>	NA	0.5"	0.5"
<b>TWEETER MATERIAL:</b>	NA	PEI	PEI
<b>GRILL MATERIAL:</b>	Aluminum	Aluminum	Aluminum
<b>OVERALL DIMENSIONS (Diameter X Height): Inches</b>	Φ7.95*3.15	Φ7.95*3.15	Φ8.93*3.58
<b>CUT OUT SIZE (Diameter): Inches</b>	Φ6.61	Φ6.61	Φ7.68
<b>WEIGHT: lbs.</b>	1.96	2.94	3.69
<b>MOUNTING HARDWARE:</b>	Mounting Clamps	Mounting Clamps	Mounting Clamps
<b>GIFT BOX DIMENSIONS (LxWxH): Inches</b>	8.9*8.6*4.3	8.9*8.6*4.3	9.7*9.5*4.7
<b>GIFT BOX WEIGHT: lbs.</b>	2.64	3.59	4.53
<b>MASTER CARTON DIMENSIONS (LxWxH): Inches</b>	13.8*17.9*10.2	13.8*17.9*10.2	19.5*14.8*10.8
<b>MASTER CARTON WEIGHT: lbs.</b>	18.1	23.8	29.4
<b>MASTER CARTON QUANTITY:</b>	6 each	6 each	6 each

## INSTALLATION:

### Speaker Placement

Before installing your OWI speakers, consider the placement carefully, taking into effect the location of electrical, plumbing and other fixtures.

### Placement in Ceiling

OWI speakers should be ideally located above the primary listening area.

### Placement in Wall

Optimum sound will be achieved when your OWI speakers are installed at ear level or slightly higher and the listening area is no closer to the speakers than the distance between the speakers themselves.

### Mounting your OWI Speakers

Determine the best area to mount your OWI speakers. It will be necessary to run your speaker wires to that location. This location must be free of obstructions, such as electrical conduits, HVAC ducts, or water lines.

Be sure the mounting surface is between 3/8 and 1 1/4 inches thick and there is at least a 3 1/2 inch clearance behind the mounting surface and no wall studs or other objects block the back of the speaker.

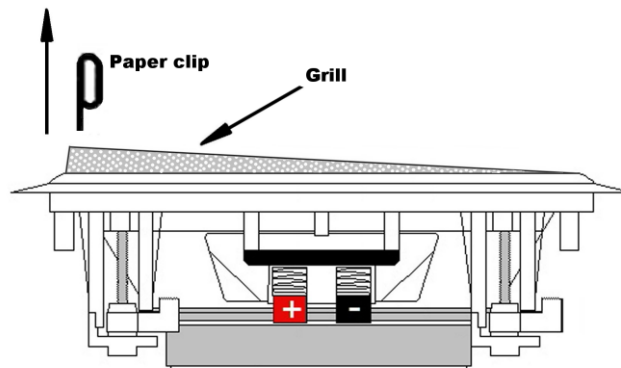
Remove the round cardboard disc from the cutout template supplied and keep it for later use as a paint mask, if you decide to paint your speakers.

Use the template to mark the position for the mounting hole at the selected location. If you are not certain that no obstruction exists (electrical wiring, plumbing, etc.), you should start by cutting a small hole in the center of your penciled mounting hole with a drywall or keyhole saw, cutting at a 45 degree angle towards the inside of the hole. Cutting a small hole at this angle will make drywall repair much easier. Once you have determined there are no obstructions in your desired mounting location, start cutting the finished hole at a 90° angle to the wall/ceiling surface.

Route the speaker wires from your amplifier to your opening. Avoid routing the speaker wire near electrical wires. If you have to run them parallel, make certain to space the speaker wires at least 2 feet from the AC line. Do not nail or staple the speaker wire.

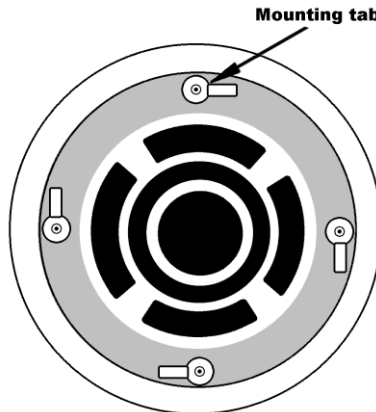
### Preparing your OWI Speakers for Mounting

Insert a paper clip into one of the grille openings, then pull upwards to remove the grille.





Be sure to position the four Mounting Tabs on your OWI speaker inward then insert the four screws (supplied) from the front of the speaker into the screw opening.



Attach the speaker wires to the speaker terminals.

Insert your OWI speaker into the opening and tighten the four screws. As you tighten the screws, the tabs will automatically flip into an outward position thereby clamping the drywall between the feet and the flange of the speaker. **BE CAREFUL NOT TO OVER TIGHTEN, OVER TIGHTENING MAY WARP THE BAFFLE, CRACK THE WALL, CAUSE THE FLANGE TO DISTORT AND MAKE THE GRILLE DIFFICULT TO INSTALL.**

Push the grille firmly into the slot in the speaker baffle.

### Painting your OWI Speakers

The speakers' other surfaces are primed to accept ordinary latex wall paint or aerosol spray paint. The surface of the speaker behind the grille should remain black and must not be painted. It is necessary to mask this area with the center of the template that you have cut out.

The grille can be painted as well, but great care must be taken not to clog the holes in the grille as this will greatly reduce the sound quality of the speakers. It is recommended that only light spray painting using 5 parts thinning agent to 1 part paint be used. Do not paint the grilles while they are attached to the speaker.

### Proper Wire Gauge Selection

The gauge of wire required is determined by the distance between your amplifier/receiver and the speakers. Use the following chart as a guide:

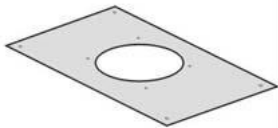
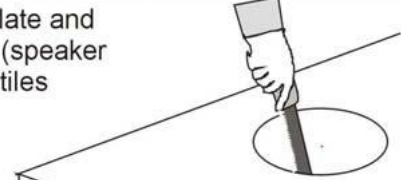
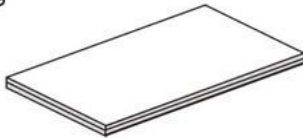
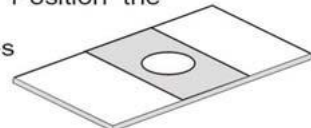
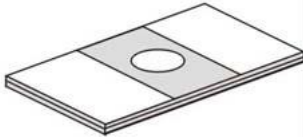
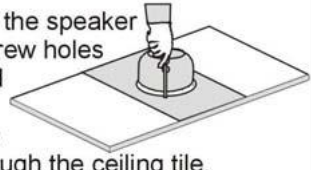
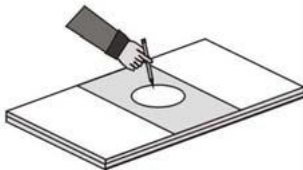
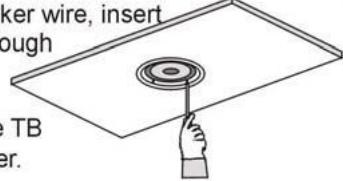
Length	Minimum Gauge
Less than 10 feet	18 - 20 Gauge
10 to 100 feet	16 to 18 Gauge
Over 100 feet	14 Gauge



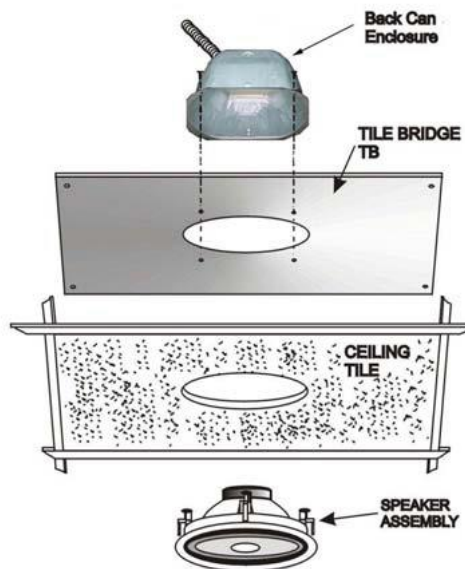
**OWI INCORPORATED**  
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**The Quick and Easy Way to Install the OWI TB (Tile Bridge) and the Backcan Enclosure with a 6-1/2" or 5-1/4" OWI In-Ceiling Speaker.**  
**The TB will work on a 2' X 4', 2' X 2' lay-in type ceilings.**

<p>1. Use one tile bridge (TB) as a template to make cut outs for all the ceiling tiles.</p> 	<p>5. Remove the template and saw out the circle (speaker hole). Set ceiling tiles aside.</p> 
<p>2. To save time, cut 2 ceiling tiles at the same time. Lay the ceiling tile face to face.</p> 	<p>6. Place one ceiling tile face down on the floor or on top of a table. Position the TB tile bridge across the tile with the speaker holes coinciding with each other.</p> 
<p>3. After finding the center of the ceiling tile, position the tile bridge template across the tile.</p> 	<p>7. Position the enclosure over the speaker hole and align it with the screw holes in the tile bridge. Insert and tighten 4 screws through the enclosure into the holes on top of the tile bridge through the ceiling tile.</p> 
<p>4. Draw a circle using the speaker hole of the template (tile bridge).</p> 	<p>8. After connecting the speaker wire, insert the speaker assembly through the hole and tighten the screws of the 4 clamps. The 4 clamps will hold the TB and the ceiling tile together.</p> 

**TEE BAR CEILING ASSEMBLY**



**OWI SPEAKER SYSTEM LIMITED WARRANTY REGISTRATION**

(Save this portion for your records)

1. Your OWI Speaker System has been thoroughly tested and inspected at the factory. It is warranted for 5 years from date of purchase.  
IT IS THE OWNERS' RESPONSIBILITY TO ESTABLISH THE DATE OF PURCHASE BY ACCEPTABLE EVIDENCE AT TIME SERVICE IS SOUGHT.
2. WHAT WE WILL PAY FOR AND WHAT YOU MUST PAY FOR:  
OWI INC. will repair or replace unit(s) covered by this warranty, without charge to the consumer for labor or materials. YOU ARE RESPONSIBLE FOR ANY INSTALLATION OR REMOVAL CHARGES AND FOR ANY INITIAL SHIPPING CHARGES if the unit(s) must be shipped for warranty service. However, we will pay the return shipping charges to any destination within the U.S.A. if the repairs are covered by the warranty.
3. Any unit which in the judgment of OWI Inc. is defective or develops defects under normal use will be replaced or repaired without cost within the warranty period.
4. This warranty will be considered void if unit has been dropped, misused, abused, altered in any manner, overdriven with excessive amplification exceeding manufacturer's specification, improperly serviced or accidental damage.
5. OWI Inc. shall have no liability whatsoever for consequential damage. The sole responsibility and discretion of OWI Inc. under this warranty shall be limited to the repair of the product or replacement thereof.
6. IMPORTANT: This warranty is void unless the attached card is completed and mailed to OWI Inc. within 10 days following the date of purchase. Units must be sent to OWI Inc. or to the dealer where purchased.

**OWI INCORPORATED**  
17141 Kingsview Ave  
Carson, CA 90746-1207 USA

Date Purchased: \_\_\_\_\_  
Model Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_

(Keep this part for your record)

-----CUT AND MAIL-----



**OWI INCORPORATED**  
17141 Kingsview Ave  
Carson, CA 90746-1207 USA

**LIMITED WARRANTY**

Model Number: \_\_\_\_\_  
Model Name: \_\_\_\_\_  
Serial No. \_\_\_\_\_  
Date of Purchase: Month: \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_  
Owner's Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Dealer's Name: \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
Purchased from (please check one):  
Video \_\_\_\_\_, Electronic \_\_\_\_\_, Mailorder \_\_\_\_\_, Mass Merchandiser \_\_\_\_\_, Installer \_\_\_\_\_  
Others (please specify) \_\_\_\_\_  
Remarks: \_\_\_\_\_

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Speaker Combination Models: IC5TBBC / IC6TBBC / IC570V04TBBC / IC570V10TBBC / IC670V10TBBC / IC6DVCTBBC



OWI Incorporated

Established 1978

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**[www.owi-inc.com](http://www.owi-inc.com)**