

GENTEX CORPORATION

A Smarter Vision®

SSPK24WLP SERIES

ANSI/UL 1480 AND ANSI/UL 1971 OR ANSI/UL 1638 COMPLIANT

**SSPKA24, SSPKB24, SSPKG24, SSPKR24,
WSSPK, WSSPK24, WSSPKA24, WSSPKB24,
WSSPKG24, WSSPKR24**

ANSI/UL 1480 AND ANSI/UL 1638 COMPLIANT

SIGNALING



WALL MOUNT LOW PROFILE SPEAKER AND SPEAKER/STROBE

MODELS

SSPK24WLP*	WALL MOUNT SPEAKER WITH SELECTABLE STROBE
SSPK24-15/75WLP*	WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE
SSPKA24-15/75PW*	WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, AMBER LENS
SSPKB24-15/75PW*	WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, BLUE LENS
SSPKG24-15/75PW*	WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, GREEN LENS
SSPKR24-15/75PW*	WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, RED LENS
WSSPK*	OUTDOOR WALL MOUNT SPEAKER WITHOUT STROBE
WSSPK24-15/75W*	OUTDOOR WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE
WSSPKA24-15/75PW*	OUTDOOR WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, AMBER LENS
WSSPKB24-15/75PW*	OUTDOOR WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, BLUE LENS
WSSPKG24-15/75PW*	OUTDOOR WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, GREEN LENS
WSSPKR24-15/75PW*	OUTDOOR WALL MOUNT SPEAKER WITH FIXED 15/75 CANDELA STROBE, RED LENS

* Includes one or more of the following designators: A (ALERT), P (plain - no text), R (red) or W (white)

I. INTRODUCTION

The Gentex SSPK24WLP and WSSPK Series is a high quality speaker/strobe. The high intensity strobe utilizes a Xenon flash tube that generates a high-intensity flash visible from all angles.

The SSPK24WLP is provided with a turn dial which allows for candela selection at the installation site; 15Cd, 30Cd, 60Cd, 75Cd, or 110Cd. The SSPK24-15/75WLP, SSPKA24-15/75PW, SSPKB24-15/75PW, SSPKG24-15/75PW, SSPKR24-15/75PW, WSSPK, WSSPK24-15/75W, WSSPKA24-15/75PW, WSSPKB24-15/75PW, WSSPKG24-15/75PW, WSSPKR24-15/75PW are fixed candela units, available in 15/75 candela intensity only. This appliance is ideal for any occupancy that requires notification appliances per the applicable building or fire code or wherever dependable alarms are required.

The SSPK24WLP speaker/strobe is listed in compliance with ANSI/UL 1971, Signaling Appliances for the Hearing Impaired (The SSPK24-15/75WLP model with a fixed 15/75 candela strobe is additionally listed in compliance with ANSI/UL 1638). The SSPKA24-15/75PW, SSPKB24-15/75PW, SSPKG24-15/75PW, SSPKR24-15/75PW, WSSPK, WSSPK24-15/75W, WSSPKA24-15/75PW, WSSPKB24-15/75PW, WSSPKG24-15/75PW, WSSPKR24-15/75PW strobe is listed in compliance with ANSI/UL 1638, Visual Signaling Appliances - Private Mode Emergency and General Signaling.

II. PRODUCT INFORMATION

The SSPK24WLP Series speaker/strobe offer a choice of field selectable power taps, 1/8, 1/4, 1/2, 1, 2 and 4 Watts for use with either 25VRMS or 70.7VRMS audio amplifiers. The frequency range of the speakers is 400-4000Hz. All devices are suitable for line supervision. Speaker includes DC blocking capacitor which allows for supervision voltage of either polarity.

III. LOCATION

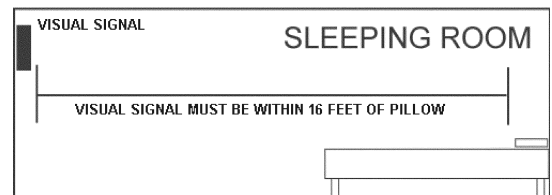
This appliance is intended for use in Fire Alarm Systems and is to be installed in accordance with this manual, the recommendation of the local authorities having jurisdiction, and other NFPA documents that provide standards on notification appliances for protective signaling systems. The SSPK24WLP, SSPK24-15/75WLP, SSPKA24-15/75PW, SSPKB24-15/75PW, SSPKG24-15/75PW, SSPKR24-15/75PW are intended for indoor installations only; this appliance is **not** listed for **outdoor** or drip proof applications. The WSSPK, WSSPK24-15/75W, WSSPKA24-15/75PW, WSSPKB24-15/75PW, WSSPKG24-15/75PW, WSSPKR24-15/75PW are intended for indoor or outdoor installations; this appliance is listed for outdoor or drip proof applications when used in conjunction with the GBLP back box.

SSPK24WLP PRODUCT INFORMATION

- ⚠ **WARNING** Visual signal must be installed within 16 feet of the pillow when used in a sleeping area.
- ⚠ **WARNING** Visual signal must be in the direct viewing area of the occupant in order to be seen.
- ⚠ **WARNING** Visual signal can not be seen when objects such as doors, furniture or walls block visual signal.

NOTICE: VISUAL SIGNALS FOR THE HEARING IMPAIRED ARE ONLY ONE METHOD OF ALERTING THE HEARING IMPAIRED. VISUAL SIGNALS MAY NOT BE THE PREFERRED METHOD FOR NOTIFYING ALL HEARING IMPAIRED INDIVIDUALS.

NOTICE: THE VISUAL SIGNAL MUST BE SEEN BY THE SLEEPING PERSON. IF THE PERSON HAS HEAD TURNED OR OTHERWISE UNABLE TO BE ALERTED BY VISUAL, THE VISUAL SIGNAL WILL NOT BE EFFECTIVE.



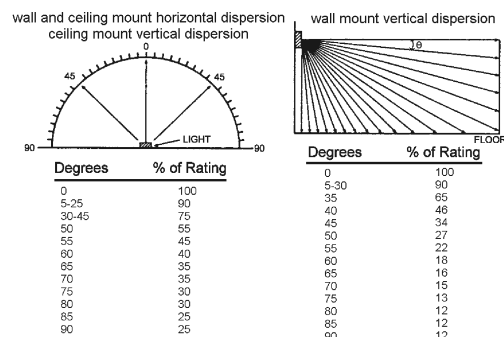
- ⚠ WARNING Visual Signal should NEVER be relied upon as the primary fire alert for the hearing impaired under these common sense conditions:**
- Sleeping face down on the bedding or pillow
 - Use of sleep medications of any kind
 - Use of alcoholic beverages or recreational drugs
 - Use of eye shades
 - If there are tendencies of deep sleep conditions
 - If a fire cuts power to AC circuits, the visual signal will not operate
 - If person is not within line of sight of visual signals

Under these and other similar common situations an alternate fire alert method such as a non-hearing impaired attendant is needed. The visual signal only increases the chance of being alerted to the presence of fire. No system of this type can fully protect the hearing impaired in case of fire.

Room Spacing for Wall-Mounted Visible Appliances per NFPA 72, 2010 Edition				
Maximum Room Size		Minimum Required Light Output (Effective Intensity, Cd)		
Meters	Feet	One Light per Room	Two Lights per Room (Located on Opposite Walls)	Four Lights per Room (One Light per Wall)
6.10 x 6.10	20 x 20	15	NA	NA
8.53 x 8.53	28 x 28	30	Unknown	NA
9.14 x 9.14	30 x 30	34	15	NA
12.2 x 12.2	40 x 40	60	30	15
13.7 x 13.7	45 x 45	75	Unknown	19
15.2 x 15.2	50 x 50	94	60	30
16.5 x 16.5	54 x 54	110	Unknown	30
16.8 x 16.8	55 x 55	115	Unknown	28
18.3 x 18.3	60 x 60	135	95	30
19.2 x 19.2	63 x 63	150	Unknown	37
20.7 x 20.7	68 x 68	177	Unknown	43
21.3 x 21.3	70 x 70	184	95	60
24.4 x 24.4	80 x 80	240	135	60
27.4 x 27.4	90 x 90	304	185	95
30.5 x 30.5	100 x 100	375	240	95
33.5 x 33.5	110 x 110	455	240	135
36.6 x 36.6	120 x 120	540	305	135
39.6 x 39.6	130 x 130	635	375	185

NA = Not allowable

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL1971

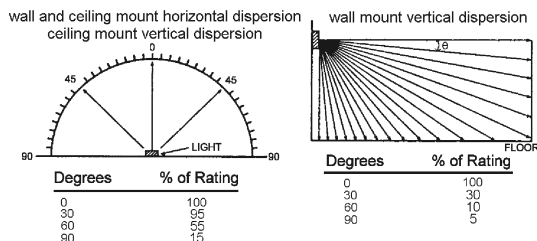


**Effective Intensity Requirements for Sleeping Areas

Visible Notification Appliance	
Distance from Ceiling to Top of Lens	Intensity
greater than or equal to 24"	110cd
less than 24"	177cd

SSPKA24, SSPKB24, SSPKG24, SSPKR24, WSSPK24, WSSPKA24, WSSPKB24, WSSPKG24 AND WSSPKR24 PRODUCT INFORMATION

LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS - PER UL1638



Model	Color Lens
SSPKA24/WSSPKA24	AMBER
SSPKB24/WSSPKB24	BLUE
SSPKG24/WSSPKG24	GREEN
SSPKR24/WSSPKR24	RED
WSSPK24	CLEAR

IV. ELECTRICAL SPECIFICATIONS

CLEAR Lens Strobe Current Ratings		
Use with SSPK24WLP Products		
Candela	Regulated 24VDC Max. Operating Current (mA)	Regulated 24VFWR Max. Operating Current (mA)
15	78	113
30	96	135
60	137	186
75	180	245
110	224	313

CLEAR Lens Strobe Current Ratings		
Fixed 15/75* Candela Strobe		
Use with SSPK24-15/75 AND WSSPK24 Products		
Candela	Regulated 24VDC Max. Operating Current (mA)	Regulated 24VFWR Max. Operating Current (mA)
15/75	96	135

COLORED Lens Strobe Current Ratings		
Fixed 15/75* Candela Strobe		
Use with SSPKA24, SSPKB24, SSPKG24, SSPKR24, WSSPKA24, WSSPKB24, WSSPKG24 AND WSSPKR24 Products		
Lens Color	Regulated 24VDC Max. Operating Current (mA)	Regulated 24VFWR Max. Operating Current (mA)
Amber	148	395
Blue	280	274
Green	360	479
Red	397	438

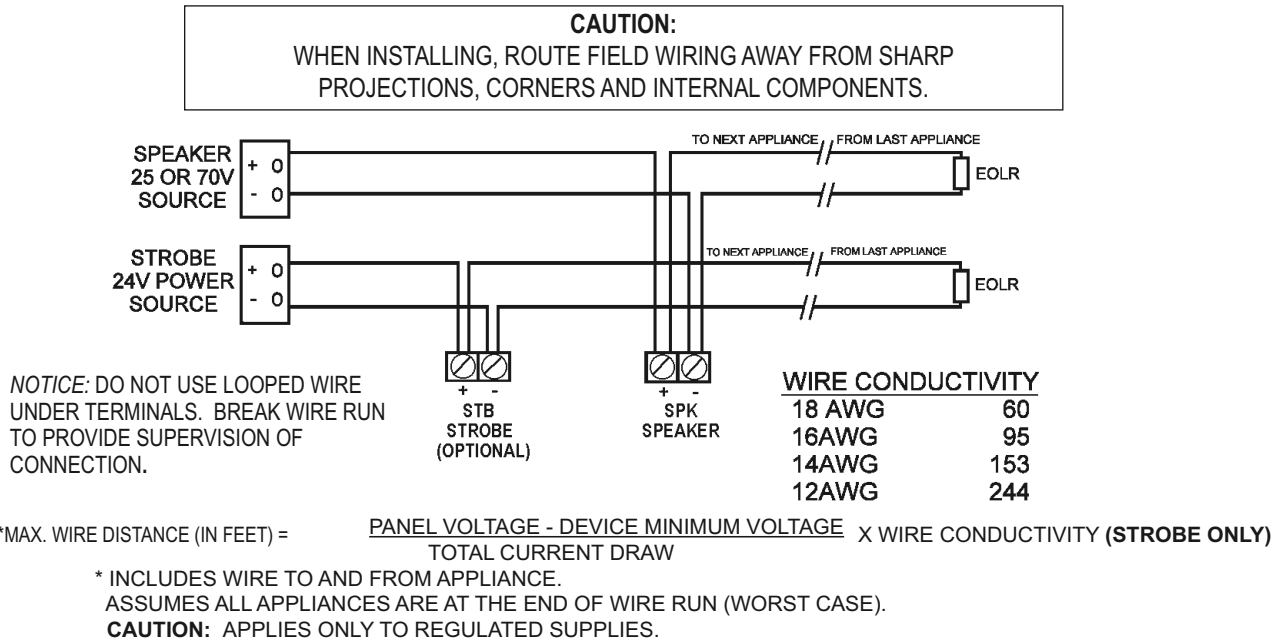
*The SSPK24-15/75, WSSPK24, SSPKA24, SSPKB24, SSPKG24, SSPKR24, WSSPKA24, WSSPKB24, WSSPKG24 and WSSPKR24 has a fixed candela rating of 15/75 per ANSI/UL 1638.

NOTICE: DC VOLTAGE RANGE LIMITS: 16-33V. FWR VOLTAGE RANGE LIMITS: 16-33V. THIS PRODUCT WAS ONLY TESTED TO THE STATED VOLTAGE RANGE(S); DO NOT APPLY 80% AND 110% OF THIS RANGE FOR SYSTEM OPERATION.

Field Selectable Power Tap Selection						
Voltage	1/8 Watt	1/4 Watt	1/2 Watt	1 Watt	2 Watt	4 Watt
25 Volts	74.6 dBA @ 10ft.	77.7 dBA @ 10ft.	80.5 dBA @ 10ft.	83.1 dBA @ 10ft.	85.6 dBA @ 10ft.	87.9 dBA @ 10ft.
70.7 Volts	73.7 dBA @ 10ft.	76.7 dBA @ 10ft.	79.6 dBA @ 10ft.	82.5 dBA @ 10ft.	85.4 dBA @ 10ft.	87.9 dBA @ 10ft.

SYSTEM CONSIDERATIONS

1. To select the proper wattage input for the speaker, move the jumper to the appropriate pin.
2. Always maintain electrical isolation between speaker and strobe wiring on combination units.
3. Do not exceed 130% of rated speaker voltage. If excessive distortion is heard, check amplifier for signal clipping. If clipping exists, reduce either amplifier input or gain.
4. Four screws are provided, two for securing speaker to the back box and two for aesthetics. The two non-functional screws will be held in place by the pressure fit of the faceplate.



NOTICE: ALL STROBES ARE DESIGNED TO FLASH AS SPECIFIED WITH CONTINUOUS APPLIED VOLTAGE. THIS APPLIANCE IS NOT RECOMMENDED FOR USE ON CODED OR PULSING SIGNALING CIRCUITS. HOWEVER, USE OF THE AVSM CONTROL MODULE IS PERMITTED TO SYNCHRONIZE THE STROBE.

NOTICE: REFERENCE AVSM CONTROL MODULE MANUAL (550-0284, DATED 2-1-03) FOR SYNCHRONIZATION MODULE WIRING DIAGRAMS. AVSM MANUAL CAN BE OBTAINED AT [HTTP://WWW.GENTEX.COM](http://www.gentex.com) OR CALL GENTEX CORPORATION AT 1-800-436-8391.

V. MOUNTING ROUGH-IN BOX AND RUN WIRING

MOUNTING - SPEAKER/STROBE TO GBLP BACK BOX

For use with SSPK24, SSPKA24, SSPKB24, SSPKG24 AND SSPKR24 Series product.

MOUNTING - SPEAKER/STROBE TO 4" SQUARE x 2 1/8" DEEP METALLIC BACK BOX

For use with SSPK24, SSPKA24, SSPKB24, SSPKG24 AND SSPKR24 Series product.

MOUNTING - OUTDOOR SPEAKER/STROBE

For use with WSSPK24, WSSPKA24, WSSPKB24, WSSPKG24 AND WSSPKR24 Series product.

NOTICE: USE FOR WALL MOUNT APPLICATIONS ONLY.

MOUNTING - OUTDOOR SPEAKER

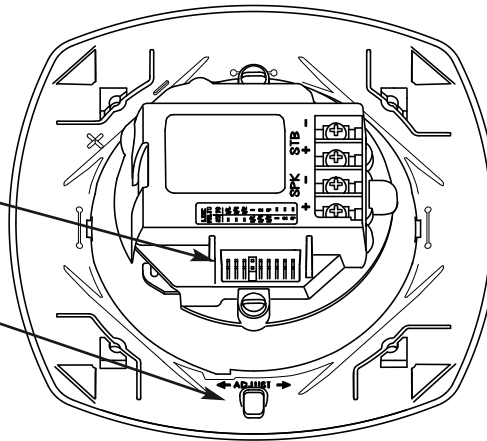
For use with WSSPK Series product.

NOTICE: USE FOR WALL MOUNT APPLICATIONS ONLY.

FIELD SELECTABLE CANDELA SELECTOR

Adjust power taps using
needle nose pliers.

FOR SSPK24 PRODUCT ONLY
Adjust intensity by inserting small flat blade
screwdriver to turn dial. Displayed number will in-
dicate selected candela.
NOTICE: FIELD SELECTABLE OPTIONS OF 15, 30,
60, 75 AND 110 CANDELA.



VI. CHECKOUT AND TROUBLESHOOTING

1. Supply power to the system control panel. The auxiliary signaling device should not be activated.
2. If the signal is activated:
 - a. Check all smoke and fire detectors in the system to make sure they have not been activated.
 - b. Check all wiring connections to make sure the signal detection circuits are not reversed or shorted together. Check wire color codes and traces.
3. To test the speaker or speaker/strobe product series and other signaling appliances, trip the auxiliary panel, activate alarm circuit at the main control panel or activate one of the fire detection units in the system. All auxiliary signals should be activated.
4. An operational test on this product should be conducted in accordance with National Standards or at a minimum annually and more often if dictated by local and state codes or authorities having jurisdiction.

SIGNALING APPLIANCE LIMITATIONS:

Your speaker meets or exceeds current audibility requirements of ANSI/UL 1480. However, if the appliance is located outside a bedroom it may not wake up a sound sleeper, especially if the room door is closed or only partially open.



WARNING

THIS APPLIANCE WILL NOT OPERATE WITHOUT ELECTRICAL POWER. AS FIRES FREQUENTLY CAUSE POWER INTERRUPTIONS, GENTEX SUGGESTS YOU DISCUSS FURTHER SAFEGUARDS WITH YOUR LOCAL FIRE PROTECTION SPECIALIST.

VI. TO RETURN AN APPLIANCE

Should you experience problems with your appliance, proceed as follows:

1. Turn off electrical power to the auxiliary alarm circuit.
2. Unscrew the unit from the mounting box.
3. Disconnect the unit from the field wiring. Reconnect the two positive supply voltage circuits (red wires) and the two negative supply voltage circuits (black wires) of the auxiliary alarm circuit to maintain power to the other auxiliary alarm appliances in the system.
4. Carefully pack the defective unit (the manufacturer cannot be responsible for consequential damage due to shipping or mishandling). Include your return address and complete details as to the nature of the difficulties being experienced and date of installation.
5. Return to: Gentex Corporation, 10985 Chicago Drive, Zeeland, MI 49464. Prior to returning, call Gentex at 1-800-436-8391 or e-mail FP_RMA@gentex.com to obtain a RMA Number from our Customer Service Department.

LIMITED WARRANTY

For a period of 36 months from the date of purchase or a maximum of 42 months from the date of manufacture, Gentex warrants to you the original purchaser that your appliance will be free from defects in workmanship, materials and construction under normal use and service. If a defect in workmanship, materials and construction should cause your appliance to become inoperative within the warranty period, Gentex will repair your appliance or furnish you with a new or rebuilt appliance without charge to you except for postage required to return the appliance to us. Gentex will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement appliance will be returned to you free of charge and it will be covered under the warranty for the balance of the warranty period.

The warranty is void if our inspection of your appliance shows that the damage or failure was caused by abuse, misuse, abnormal usage, faulty installation, improper maintenance or repairs other than those performed by us.

ANY WARRANTIES IMPLIED UNDER ANY STATE LAW INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLY ONLY FOR THE WARRANTY PERIOD SPECIFIED ABOVE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. GENTEX WILL NOT BE LIABLE FOR ANY LOSS, DAMAGE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THIS APPLIANCE. THE MAXIMUM LIABILITY OF GENTEX SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE APPLIANCE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

If a defect in workmanship, materials or construction should cause your appliance to become inoperable within the warranty period, you must return the appliance to Gentex postage prepaid. You must prove to the satisfaction of Gentex the date of purchase of your appliance. Warranty service may only be performed by Gentex personnel at Gentex's facilities in Zeeland, Michigan. You must also pack the appliance to minimize the risk of it being damaged in transit. You must also enclose a return address. Appliances returned for warranty service should be sent to: Gentex Corporation, 10985 Chicago Dr., Zeeland MI 49464. If we receive an appliance in a damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Important Notice:

These materials have been prepared by Gentex Corporation ("Gentex") for informational purposes only, are necessarily summary, and are not purporting to serve as legal advice and should not be used as such. Gentex makes no representations and warranties, express or implied, that these materials are complete and accurate, up-to-date, or in compliance with all relevant local, state and federal laws, regulations and rules. The materials do not address all legal considerations as there is inevitable uncertainty regarding interpretation of laws, regulations and rules and the application of such laws, regulations and rules to particular fact patterns. Each person's activities can differently affect the obligations that exist under applicable laws, regulations or rules. Therefore, these materials should be used only for informational purposes and should not be used as a substitute for seeking professional legal advice. Gentex will not be responsible for any action or failure to act in reliance upon the information contained in this material.

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550-0014-AAA

09/01/09