



## Two-way radio took a plunge?

**With the right IP rating, it'll continue working as hard as you are.**

When selecting the right two-way radios and accessories for your business, an important factor to consider is the equipment's ingress protection rating, or IP rating. The IP rating scale is an international standard for measuring how well equipment is sealed, therefore measuring its ability to protect against dust and liquid. IP ratings are noted in the form of the acronym IP followed by a two digit number (i.e. IP67). The first digit represents the ability to protect against solid objects and the second digit represents the ability to protect against liquids.

Equipment with a higher IP rating means it will better withstand contact with dust and water. Generally speaking, the higher the IP rating, the higher the cost. This is because the equipment is more durable and therefore meant for work environments where it will be exposed to dust and water.

When working with your Spectrum Communications Account Manager to select the equipment best-suited for your business, one of the factors considered is the IP rating needed for your work environment. Selecting the proper protection level now will help ensure a longer equipment life and faster return on your investment.

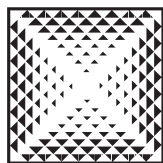
For a more detailed overview of IP ratings, we've included a convenient reference chart on the reverse.

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# Understanding IP Ratings

IP ratings are noted in the form of the acronym IP followed by a two digit number (i.e. IP67) with the first digit representing the ability to protect against solid objects and the second digit representing the ability to protect against liquids. The following reference chart will help you better understand the IP rating of your equipment and its ability to withstand dust and water.

First Digit	Protection Against Solid Objects	Second Digit	Protection Against Liquids
0	No protection	0	No protection
1	Protection against object greater than 50mm (i.e. hand)	1	Protection against vertically falling drops (i.e. condensation)
2	Protection against object greater than 12.5mm (i.e. finger)	2	Protection against direct sprays up to 15° from vertical (i.e. drip)
3	Protection against object greater than 2.5mm (i.e. screwdriver)	3	Protection against direct sprays up to 60° from vertical (i.e. spraying)
4	Protection against object greater than 1mm (i.e. wire)	4	Protection against direct sprays from all directions (i.e. splashing)
5	Dust-proof, will not interfere with operation	5	Protection against low pressure water jets from all directions
6	Dust-tight, no dust may enter	6	Protection against high pressure water jets from all directions
		7	Protection against temporary immersion (up to 1m for 30 minutes)
		8	Protection against long periods of immersion under pressure (beyond 1m)



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