



X-series PROBE XGD

Evaluation Instructions

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Safety Notice

This Guide to the XGD should be treated as a supplement to the regular user manual supplied with your Otoport device. All safety information, contra-indications and infection control advice present in your regular Otoport manual applies to the use of this XGD probe. Any section of the regular user manual that references QA tests on UGS or UGD probes applies like-for-like to the XGD probe described here unless stated otherwise. Only the fitting of tips and maintenance of the XGD probe differs for that of the UGD and UGS probed.

1. XGD PROBE OVERVIEW



Thank you for agreeing to trial, demonstrate and provide feedback on our new probe: the 'XGD' probe.

The 'XGD' probe can replace both UGS and UGD probes on all color Otoports and Otochecks, for DPOAEs, TEOAEs and/or AABR. We have supplied you with an Otoport DP Clinical instrument and XGD probe, pre-configured and ready to go.

This probe has **2 BIG** advantages for Otodynamics customers.

1.1. Easier Maintenance & Reduced Costs:

The mechanical redesign of our probe makes user level maintenance so much easier. There's no dismantling of the probe to replace a tiny 'coupler'. The XGD's disposable tip holder just unclips and can be replaced in seconds with no danger of damage to probe transducers by inexperienced handling. And the disposable tip holder costs much less than our current couplers, meaning that the XGD will have lower running costs and will last longer. Included in your demo-kit is a supply of tips and tip holders. See for instructions

1.2. Better Performance:

The XGD probe's acoustic response can be controlled more accurately than ever before, delivering greater consistency and giving more scope for the recalibration of ageing probes. The XGD has the same acoustic response as our current UGS and UGD probes – ensuring customers of continuity in clinical testing and the same sensitivity and specificity in screening programs.

XGD probes are also programmable on some Otoport models. With an upcoming software upgrade, Otoport 'Advance' and 'DP Clinical' users will be able to extend their DPOAE frequency range to 12kHz.



The Otoport included in your demo-kit has had its firmware upgraded to recognise the XGD probe. Customer's Otoport/Otochecks will need this firmware upgrade for the instrument to recognise the XGD. This will not affect use of current UGD and UGS probes which can still be used interchangeably. The firmware upgrade will be supplied free with every XGD probe. We have not supplied the upgrade with this kit. The XGD must be demonstrated on the Otoport supplied and NOT on a customer's device

Limitations of this demo-kit. The XGD probe supplied is for demonstration and evaluation purposes and not for sale or clinical use. It does not include the 12kHz enhancement mentioned above and it is not optimised for use on an Otoport ABR sleeve.

Commercial XGD probes will NOT have these limitations. XGD probes will however NOT be compatible with legacy black and white display Otoports/Otochecks, or Echoports.

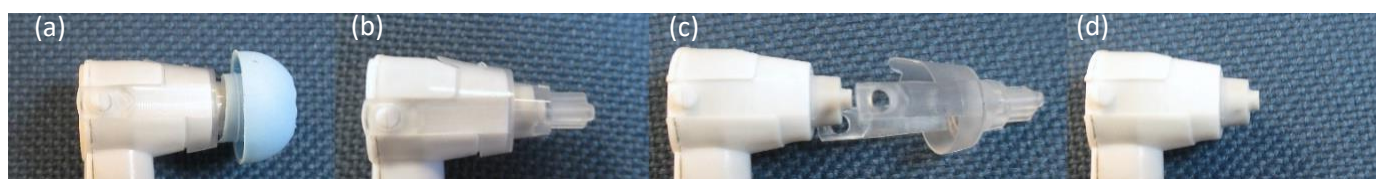
2. Using the XGD probe

The XGD probe is an enhanced replacement of the Otodynamics UGD and UGS probes, and offers advantages for both screening and clinical applications. viz easier and more economical maintenance, and enhanced acoustic performance.

Use of the XGD probe for testing is exactly the same as with our current UGD and UGS probes. The difference is in the way it is maintained

2.1. XGD Probe Maintenance & Cleaning

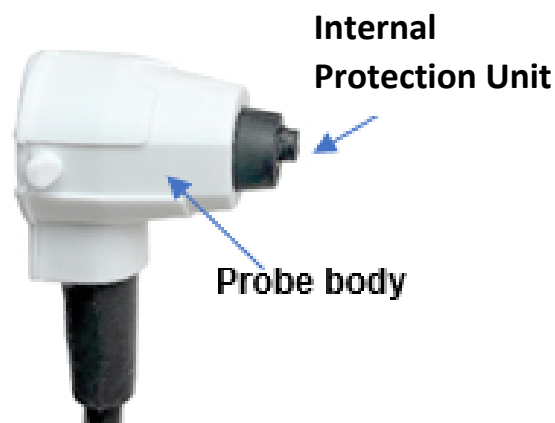
Otodynamics XGD probe is designed to make daily maintenance and cleaning easier and quicker.



- a) The XGD probe accepts regular Otodynamics 'DP' tips
- b) The tip is easily removed and replaced for each new patient, protecting the probe and the patient
- c) For cleaning the disposable clear plastic tip holder unclips. The sound ports of the probe are fully protected
- d) A new tip holder is fitted over probe body, automatically locates with the sound ports and click precisely into position.

2.2. XGD: Probe Head

The X-Series probe head benefits from the inclusion of an internal protection unit that fully protects the microphone and loudspeaker ports.



2.3. XGD: Probe Plug

The X-Series probe connects to the Otoport instrument in the same manner as existing U-series probes(eg UGD) , by means of the circular metal connector.



For more guidance, please refer to section: 'Connecting the probe', in your product manual.

2.4. XGD: Tip Holder & Ear Tips

A key feature of the XGD design is the disposable 'tip holder'

This tip holder accepts regular Otodynamics DPOAE tips.

With the XGD these tips are used for both TEOAE and DPOAE recordings

The General tip holder can be used with the following tip types and sizes:

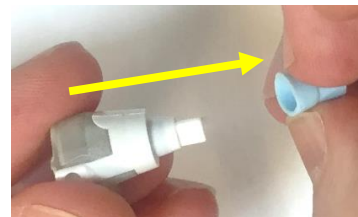


R4.8S <small>REF T-R4.8S</small> Fits ~4.8mm ear canal Small newborns	R5.8B <small>REF T-R5.8B</small> Fits ~5.8mm ear canal Most newborns
R6.8B <small>REF T-R6.8B</small> Fits ~6.8mm ear canal Large newborns and first year infants	R7M <small>REF T-R7M</small> Fits ~7mm ear canal Infants and children
R8M <small>REF T-R8M</small> Fits ~8mm ear canal Infants and small adult ears	R9M <small>REF T-R9M</small> Fits ~9mm ear canal Most adult ears
R11M <small>REF T-R11M</small> Fits ~11mm ear canal Large adult ears	R13M <small>REF T-R13M</small> Fits ~13mm ear canal Extra large adult ears
Large foam tip <small>REF T-R100L</small>	Small foam tip <small>REF T-R100S</small>

2.5. XGD: Removing Ear Tips



Hold the head of the probe firmly



Squeeze the tip and pull away from the probe

2.6. XGD: Fitting Ear Tips & Ear Fitting



Align tip aperture



Push tip onto holder



Ensure the bottom of the tip is push against the tip holder as shown



Insert into ear

2.7. XGD: Removing Tip Holder



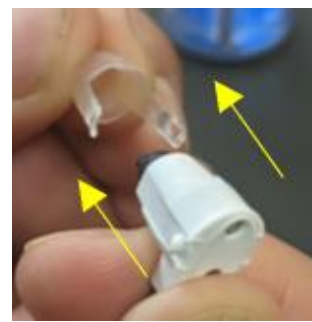
a) Unclip one side tab



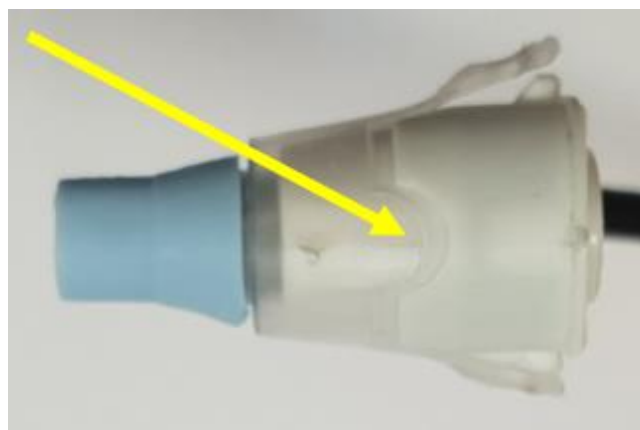
b) Unclip other side tab



c) Pull out the tip holder



2.8. XGD: Fitting Tip Holder



To fit the Tip Holder to the probe body, ensure that it is aligned with the probe head as shown below.

Guide onto the head applying light pressure, while firmly pushing on both side tabs until they 'click' into place.

Note: the HALF MOON cut-out on top of the probe body must match the half-moon tab on top of the tip holder as shown



Caution



While the tip hold is flexi but do not pull or push the tabs open too widely as this may weaken the tip holder and prevent you clicking the arms onto the probe baby.

NOTE – this illustrations shows assemble screws on the back of probe. These will be covered by a label for new sales. The screws only need to be accessed for servicing.

X-series PROBE XGD

3. Frequently Asked Questions

- a) **When will XGDs be available for sale?**
General release is planned for November
- b) **Will customers get the same test responses, the same pass and fail rates, with the XGD?**
Yes. After upgrading your Otoport firmware (included with the probe) your Otoport will automatically match the acoustic response of your current probe.
- c) **Will customer still be able to use their current probes and probe tips after the upgrade?**
Yes, once upgraded your Otoport will accept XGD, UGD or UGS probes, and the XGD accepts regular Otodynamics DP tips. TEOAE users should note that the XGD only takes UGD tips, but it is equally capable of making TEOAE recordings.
- d) **Is the probe the same size and format as the old probe?**
Yes, the XGD is basically the same size and weight as our previous probes, which makes them light and comfortable.
- e) **Will the XGD cost more?**
No, the XGD will be priced the same as current UGS probes. There will also be savings in consumables costs because the disposable 'tip holder' will cost less than the current 'coupler'. We also expect the XGD to last longer, because the probes filters are fully protected.
- f) **If customers only use Otoports for screening with TEOAEs, will they need a TEOAE only version of the XGD?**
No. The XGD is equally capable of TEOAE and DPOAEs, according to the Otoport model you have so there's no need for a 'TEOAE only' probe.
- g) **Is upgrading the Otoport firmware for the XGD difficult?**
No. Customers can easily do it themselves if they are familiar with our Otolink Suite on PC. Full instructions will be supplied with the XGD probe. Some may prefer not to do the upgrade yourself and will ask you to do that as a chargeable service. It will only need to be done once per instruments, and thereafter they can use XGD, UGD and UGS probes interchangeably.
- Note to Dealers: This demonstration kit does NOT include a firmware upgrade for customer so they can't use the demonstration probe on their Otoport. Enquire about a customer trial if your demonstration creates interest.*
- h) **Otocheck LEs don't use Otolink. Can they still upgrade to XGD?**
Yes, all color Otochecks can be upgraded to take XGD probes. The Otolink program for PC can be downloaded. Then connect the Otocheck LE to the PC using the Otodynamics USB charging cable and upgrade the Otocheck firmware.
- i) **How will the XGD probe allow Advance and DP Clinical Otoports to test up to 12kHz?**
An advanced XGD firmware update for these Otoports is currently in approval testing for release later this year. By applying 'dynamic response control' it will provide enhanced DPgram functions up to 12kHz on current instruments.
- j) **Can XGDs be used on old 'black and white' Otoport?**
Unfortunately not. Older 'black and white' Otoports doesn't have the processing power to run the XGD firmware. The XGD will not be recognised and testing will not be possible. But don't worry, our UGD and UGD probes and tips will remain available for years to come.
- k) **Can XGDs be used on Echoport ILO292 or 288s?**
Sorry but the XGD is not compatible with these devices