

ZepHr® Reflux Monitoring System



Confidently detect and measure reflux episodes, both acid and nonacid.

Get objective evidence to support your clinical decisions with our Impedance/pH Monitoring System that quantifies esophageal acid exposure and correlates patient-identified symptoms with reflux episodes. Save time by prescreening studies with our AutoSCAN® feature which automatically detects acid and nonacid reflux episodes during analysis.

ZepHr[®] Reflux Monitoring System featuring Zvu[®] Functional GI Software

Choosing the appropriate ambulatory reflux test is more important than ever.

Zvu[®] Functional GI Software provides comprehensive acquisition and analysis tools for reflux monitoring—for detecting acid and nonacid reflux, on or off PPIs.

- Includes the data and normal values based on the latest publication from the Lyon Consensus
- Automatically adjusts normal values whether the study is performed on or off PPIs
- Includes automated analysis of Mean Nocturnal Baseline Impedance (MNBI), and calculates both DeMeester and Boix-Ochoa composite scores
- Provides automated detection and analysis of full column and laryngopharyngeal reflux episodes when using an LPR probe
- Reduces overall review time with AutoSCAN[®] automated analysis
- Simplified controls allow for easy transition between color and conventional waveform views, including both the impedance and pH data
- Customizable reports and multiple report formats available
- Ability to seamlessly access the study and the report when connected to the facility's network

Acid Exposure

Distal Body pH: Prox LES+5

	Upright	Upright Normal	Recumbent	Recumbent Normal	Total	Total Normal
% Exposure Time (Conv.)	9.7 %	< 1.5 %	3.9 %	< 0.5 %	8.2 %	< 1.3 %
% Exposure Time (Lyon)	9.7 %		3.9 %		8.2 %	<= 6.0 %

Reflux Episode Activity (Liquid Impedance)

	Upright	Recumbent	Total	Total Normal
All Reflux	56	9	65	< 48

Diversatek Healthcare 9150 Commerce Center Circle, Suite 500, Highlands Ranch, CO 800-558-6408

Reflux Monitoring Report

Patient: Hope, Robert
 Gender: Male, DOB (Age): 05/11/1972 (35 yrs), Height: 69.0 in, Weight: 175.0 lb, BMI: 25.8
 Physician: Dr. Joe Jones, Referred By: K. Carlson, RN, Acquired On: 09/10/2007, Probe Used: 01, Acid Suppression: On

Medications: Nexium 40 mg daily

Notes:

Findings:

Acid Exposure	Upright	Upright Normal	Recumbent	Recumbent Normal	Total	Total Normal
Distal Body pH: Prox LES+5	9.7 %	< 1.5 %	3.9 %	< 0.5 %	8.2 %	< 1.3 %
% Exposure Time (Conv.)	9.7 %		3.9 %		8.2 %	<= 6.0 %

Reflux Episode Activity (Liquid Impedance)

All Reflux	Upright	Recumbent	Total	Total Normal
65	56	9	65	< 48

Symptom Correlation to Reflux (Impedance)

Symptom	Count	Acid Related	Non-Acid Related	All Reflux Related	All Reflux %	All Reflux S&P
Chest Pain	22	6	0	6	27.3 %	87.7 %
Heartburn	1	1	0	1	100.0 %	90.7 %
Regurg	1	1	0	1	100.0 %	90.7 %

Mean Nocturnal Baseline Impedance (MNBI): 78.0 (Norm: >= 22.0)

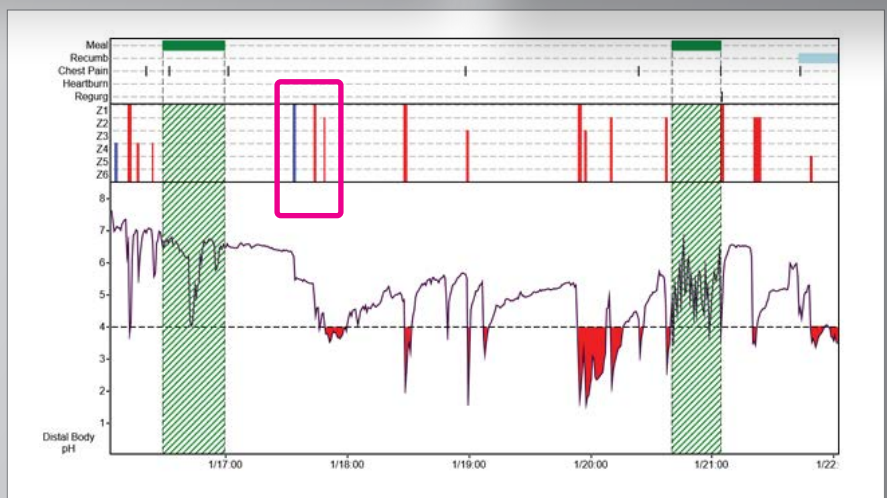
Impressions: Diagnosis

Signature: Dr. Joe Jones Date / Time

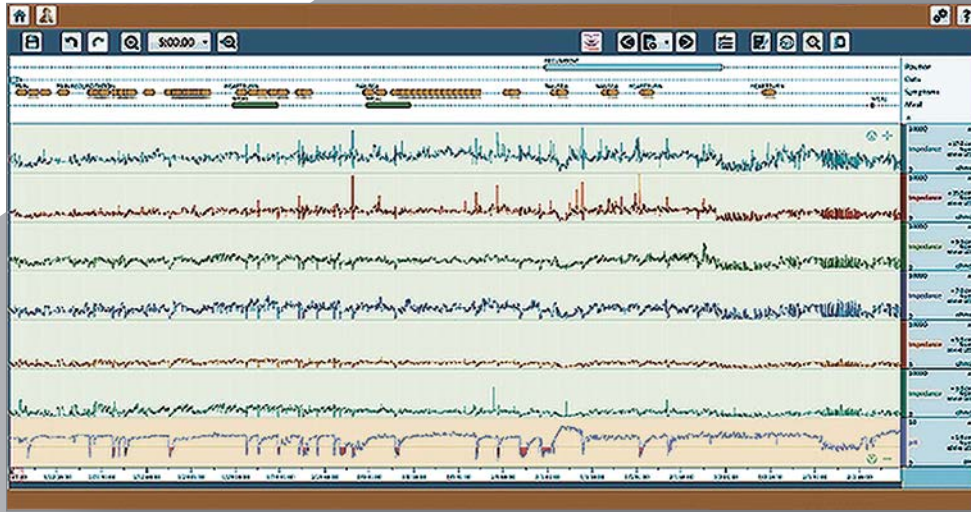
Hope, Robert Patient MR 369-9963 Acquired On: 09/10/2007 Generated On: 02/20/2018 Page 1 of 6

Easy to Read Strip Charts Included on Report

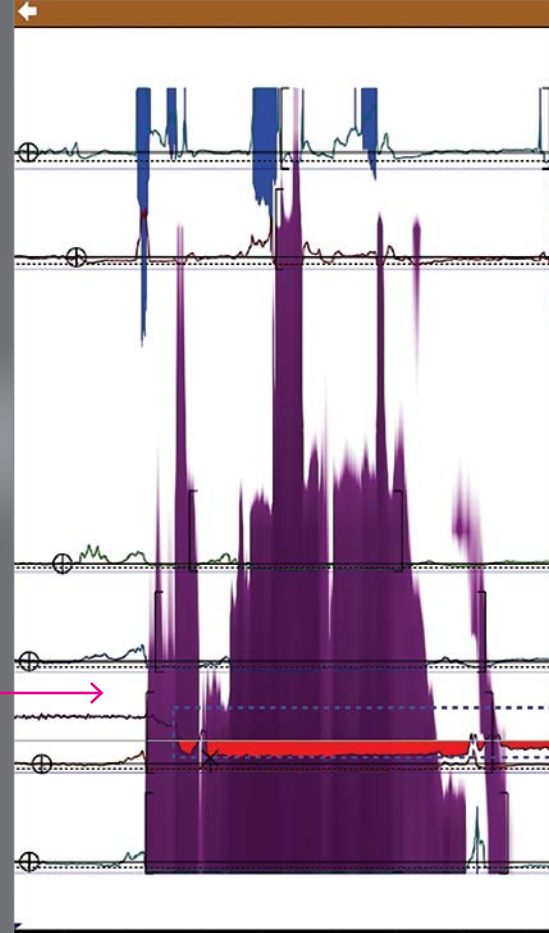
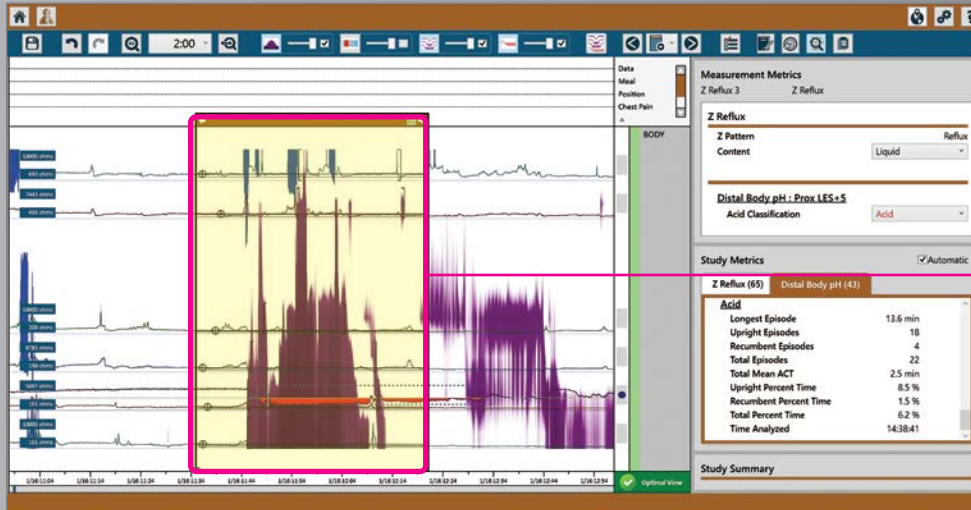
Strip charts quickly inform the clinician on the number of acid and nonacid reflux episodes as well as their correlation to symptoms. This six hour snapshot includes one nonacid and two acid reflux episodes that occurred soon after a meal but with no correlated symptoms.



Standard View

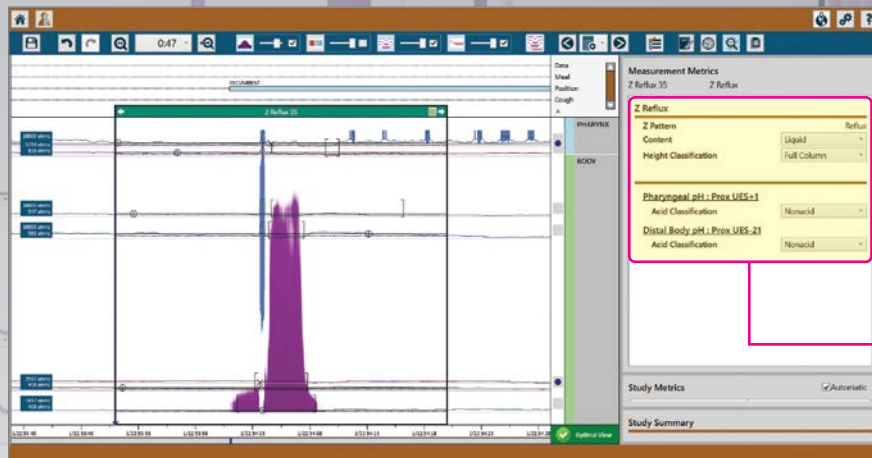


Fit to Probe View



Diversatek Healthcare has a complete line of innovative products for Reflux Monitoring including proprietary Zvu® Software, ZepHr® Impedance/pH Recorder and ComforTEC™ Probes.

Nonacid Full Column Reflux



Z Reflux

Z Pattern: Reflux

Content: Liquid

Height Classification: Full Column

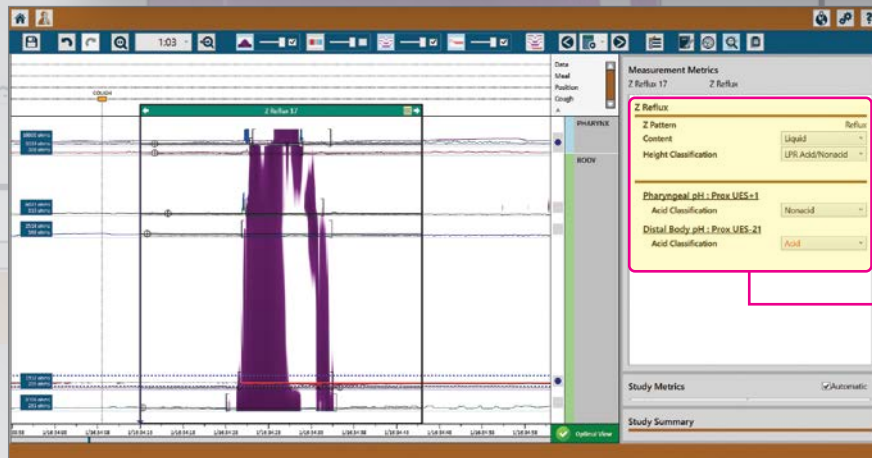
Pharyngeal pH : Prox UES+1

Acid Classification: Nonacid

Distal Body pH : Prox UES-21

Acid Classification: Nonacid

Nonacid Pharyngeal Reflux



Z Reflux

Z Pattern: Reflux

Content: LPR Acid/Nonacid

Height Classification: LPR Acid/Nonacid

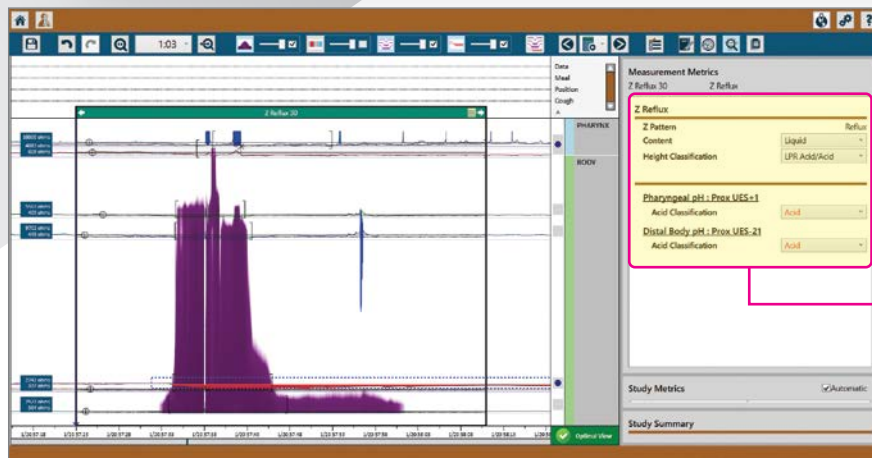
Pharyngeal pH : Prox UES+1

Acid Classification: Nonacid

Distal Body pH : Prox UES-21

Acid Classification: Acid

Acid Pharyngeal Reflux



Z Reflux

Z Pattern: Reflux

Content: LPR Acid/Acid

Height Classification: LPR Acid/Acid

Pharyngeal pH : Prox UES+1

Acid Classification: Acid

Distal Body pH : Prox UES-21

Acid Classification: Acid

ZepHr® Impedance/pH Recorder

- Small and lightweight with easy-to-use interface
- Three large easy to identify programmable symptom buttons
- Additional dedicated buttons for upright and recumbent positions, meal times, back light, and diary
- SD Card for quick, effortless data download between patient uses
- Two year manufacturer's warranty on the ZepHr® recorder

ComforTEC™ Probes—a perfect fit for every clinical application

- The widest range of standard probe configurations to meet your clinical needs for impedance/pH and pH-only studies
- Multiple sensor configurations available to accommodate a variety of study requirements and esophageal lengths
- Specially-formulated polyurethane, which softens in response to body temperature, optimizing ease of insertion and enhancing patient comfort
- Three probe sizes to detect full column and laryngopharyngeal reflux with positioning bands for precise placement just above the UES when a prior manometry study is not available

Reflux Monitoring

ZepHr® Recorder & Accessories

ZepHr® Recorder & Accessories

Part No.	Description	Unit
Z07-2000B-B	ZepHr Z/pH Recorder. For ambulatory impedance/pH reflux monitoring. Includes carrying case, two SD cards, and two AA batteries. Limited two year warranty.	1 ea
Z07-9000	ZepHr System Starter Kit. Includes an SD Card Reader, pH Calibration Tubes, and Buffer Solutions, plus Zvu® Software.	1 ea
A04-2000-S	ZepHr® Sphincter Locator for pH or Z/pH reflux testing. Infused probes are required for use.	1 ea
D82-3103	pH 1 Buffer Solution (500 mL). For use with pH reflux testing system and probes.	1 ea
D82-3151	pH 4 Buffer Solution (500 mL). For use with Diversatek Healthcare Z/pH or pH reflux testing system and probes.	1 ea
D82-3152	pH 7 Buffer Solution (500 mL). For use with Diversatek Healthcare Z/pH or pH reflux testing system and probes.	1 ea
NG-0050	Nasal Tube Fastener for reflux studies, Adult Size.	50/cs

ZepHr® Replacement Products

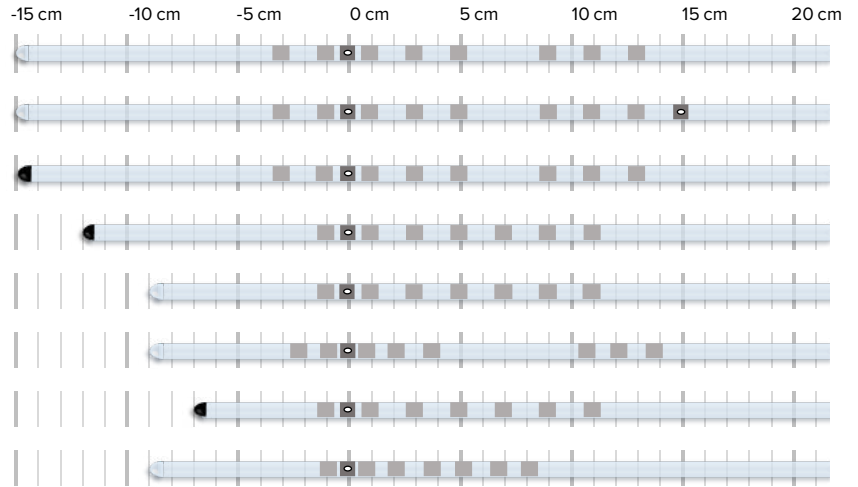
Part No.	Description	Unit
Z07-4053	ZepHr® Battery Cover	1 ea
Z07-4055	ZepHr® Probe Cover, Smoke	1 ea
Z07R-8002	ZepHr® Thermoform Pouch	1 ea
Z07-1250	SD Flash Memory Card	1 ea
L89-5700-4	USB Multicard Reader Kit for ZepHr®	1 ea
L89-6020-40	pH Calibration Tube (Set of 3). Includes pH 4 and pH 7 buffer tubes, plus a water tube.	1 ea
L89-6021-40	pH Calibration Buffer Tube, 40 cm (Includes both pH 4 and pH 7 labels)	1 ea
L89-8080	pH Calibration Stand	1 ea
L89-8081-40	pH Calibration Water Tube, 40 cm	1 ea

ComforTEC™ Probes

Z/pH Probe. Internal Reference, Non-infused.

Single-use, Non-sterile

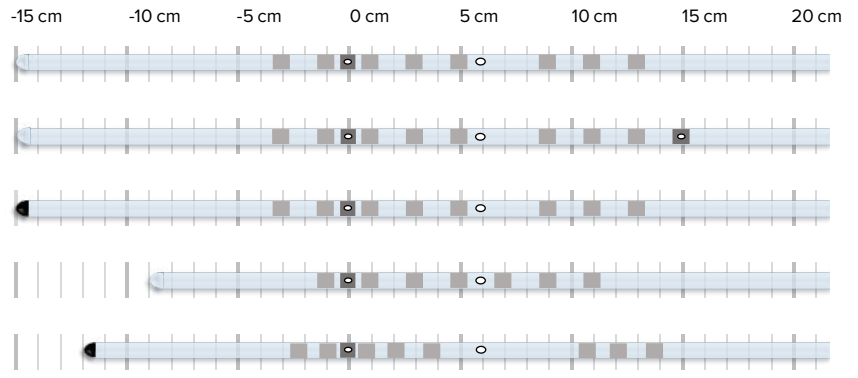
Part No.	Description	Unit
ZAN-BS-01	≥ 18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea
ZAN-BD-31	≥ 18 cm Esophageal length, 6 impedance, 2 pH channels 0 & 15 cm (esophageal), 6.4 FR / 2.13 mm	1 ea
ZAN-BG-44	≥ 18 cm Esophageal length, 6 impedance, 2 pH channels -15 & 0 cm (esophageal and gastric), 6.4 FR / 2.13 mm	1 ea
ZPN-BG-07	15–18 cm Esophageal length, 6 impedance, 2 pH channels -12 & 0 cm (esophageal and gastric), 6.4 FR / 2.13 mm	1 ea
ZPN-BS-46	15–18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea
ZPN-BS-50	15–18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea
ZPN-BG-57	15–18 cm Esophageal length, 6 impedance, 2 pH channels -7 & 0 cm (esophageal and gastric), 6.4 FR / 2.13 mm	1 ea
ZIN-BS-51	< 15 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea



Z/pH Probe. Internal Reference, Infused.

Single-use, Non-sterile. Can be used with ZepHr® Sphincter Locator.

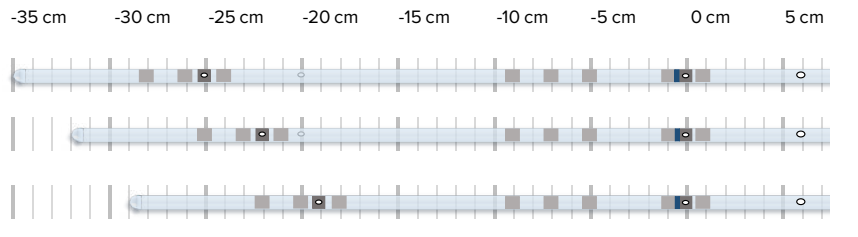
Part No.	Description	Unit
ZAI-BS-01	≥ 18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), infusion port at 6 cm, 6.9 FR / 2.3 mm	1 ea
ZAI-BD-31	≥ 18 cm Esophageal length, 6 impedance, 2 pH channels 0 & 15 cm (esophageal), infusion port at 6 cm, 6.9 FR / 2.3 mm	1 ea
ZAI-BG-44	≥ 18 cm Esophageal length, 6 impedance, 2 pH channels -15 & 0 cm (esophageal and gastric), infusion port at 6 cm, 6.9 FR / 2.3 mm	1 ea
ZPI-BS-46	15–18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), infusion port at 6 cm, 6.9 FR / 2.3 mm	1 ea
ZPI-BG-52	15–18 cm Esophageal length, 6 impedance, 2 pH channels -12 & 0 cm (esophageal and gastric), infusion port at 6 cm, 6.9 FR / 2.3 mm	1 ea



LPR Probe. Internal Reference, Infused.

Single-use, Non-sterile. Can be used with ZepHr® Sphincter Locator.

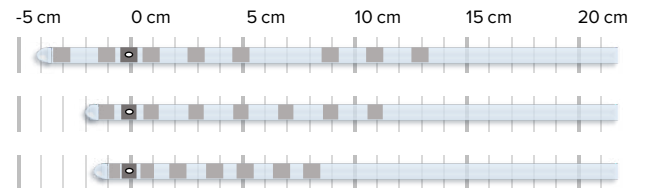
Part No.	Description	Unit
ZAI-BL-54	26–28 cm Esophageal length, 2 pH channels -25 & 0 cm (UES), infusion port at 6 cm (above UES), 6.9 FR / 2.3 mm	1 ea
ZAI-BL-55	23–25 cm Esophageal length, 2 pH channels -22 & 0 cm (UES), infusion port at 6 cm (above UES), 6.9 FR / 2.3 mm	1 ea
ZAI-BL-56	20–22 cm Esophageal length, 2 pH channels -19 & 0 cm (UES), infusion port at 6 cm (above UES), 6.9 FR / 2.3 mm	1 ea



Z/pH Probe. External Reference, Non-infused.

Single-use, Non-sterile

Part No.	Description	Unit
ZAN-BS-01E	≥ 18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea
ZPN-BS-46E	15–18 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea
ZIN-BS-45E	< 15 cm Esophageal length, 6 impedance, 1 pH channel (esophageal), 6.4 FR / 2.13 mm	1 ea

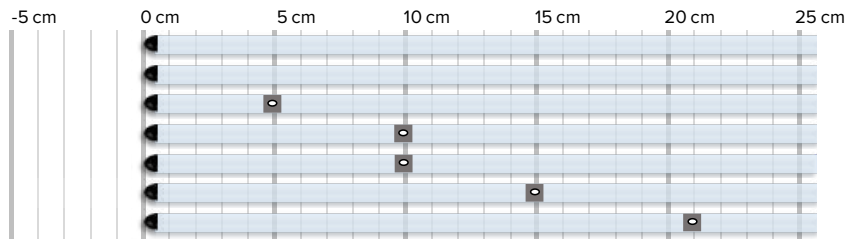


ComforTEC™ PLUS Probes

pH Probe. Internal Reference, Non-infused.

Single-use, Non-sterile

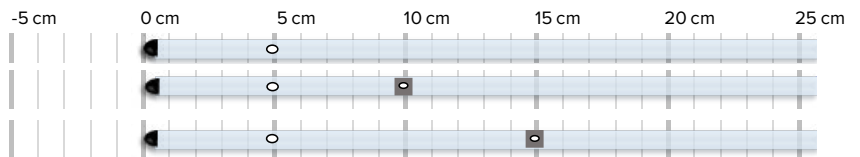
Part No.	Description	Unit
PHNS-P	1 pH channel, 5 FR / 1.67 mm	1 ea
PHNS	1 pH channel, 6.4 FR / 2.13 mm	1 ea
PHN5	2 pH channels 0 & 5 cm, 6.4 FR / 2.13 mm	1 ea
PHN10-P	2 pH channels 0 & 10 cm, 5 FR / 1.67 mm	1 ea
PHN10	2 pH channels 0 & 10 cm, 6.4 FR / 2.13 mm	1 ea
PHN15	2 pH channels 0 & 15 cm, 6.4 FR / 2.13 mm	1 ea
PHN21	2 pH channels 0 & 21 cm, 6.4 FR / 2.13 mm	1 ea



pH Probe. Internal Reference, Infused.

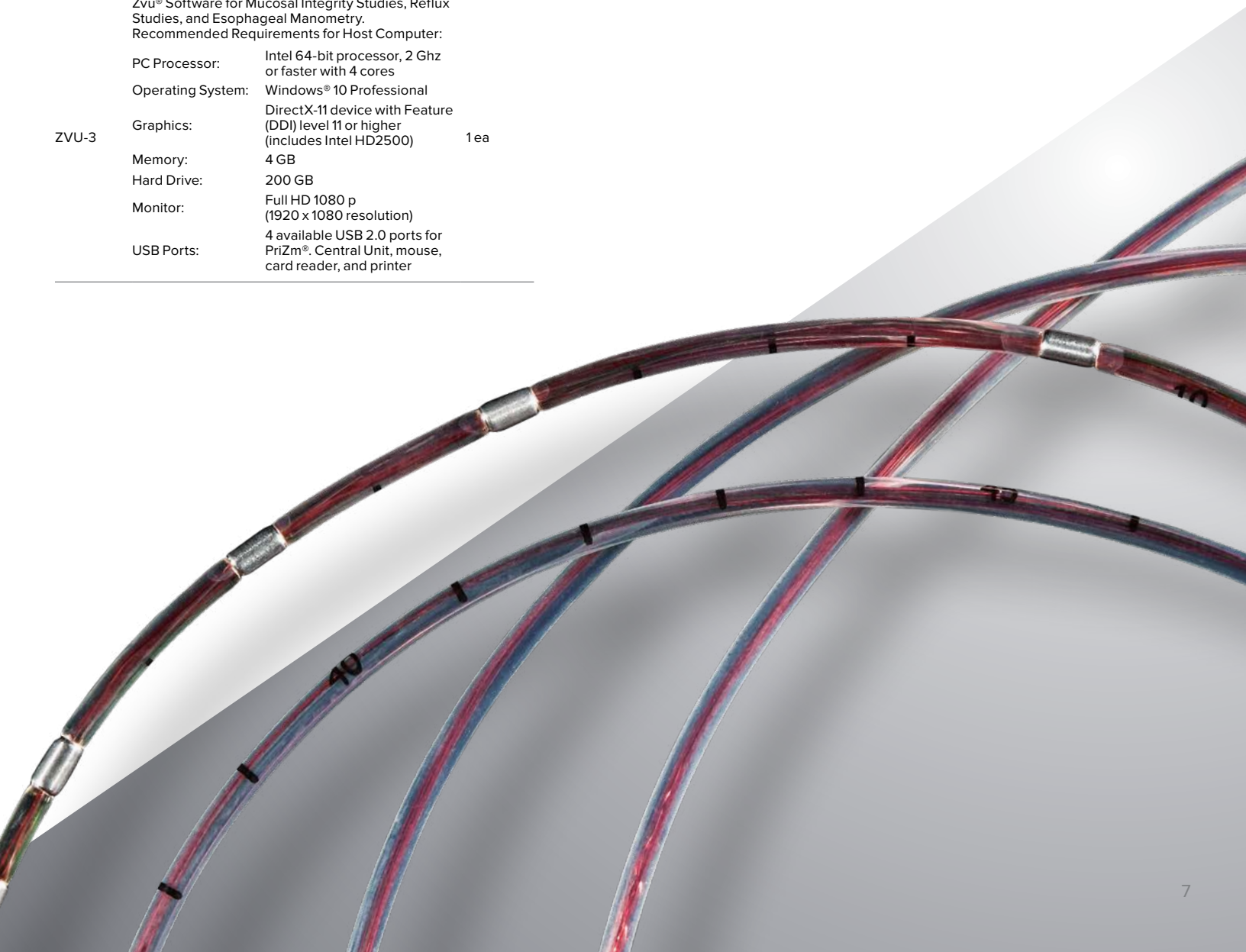
Single-use, Non-sterile. Can be used with ZepHr® Sphincter Locator.

Part No.	Description	Unit
PHIS	1 pH channel, infusion port at 5 cm, 6.9 FR / 2.3 mm	1 ea
PHI10	2 pH channels 0 & 10 cm, infusion port at 5 cm, 6.9 FR / 2.3 mm	1 ea
PHI15	2 pH channels 0 & 15 cm, infusion port at 5 cm, 6.9 FR / 2.3 mm	1 ea



GI Motility Software

Part No.	Description	Unit
ZVU-3	Zvu® Software for Mucosal Integrity Studies, Reflux Studies, and Esophageal Manometry. Recommended Requirements for Host Computer: PC Processor: Intel 64-bit processor, 2 Ghz or faster with 4 cores Operating System: Windows® 10 Professional Graphics: DirectX-11 device with Feature (DDI) level 11 or higher (includes Intel HD2500) Memory: 4 GB Hard Drive: 200 GB Monitor: Full HD 1080 p (1920 x 1080 resolution) USB Ports: 4 available USB 2.0 ports for PriZm®. Central Unit, mouse, card reader, and printer	1 ea



Mastering Knowledge & Skills

Diversatek University Online

Our online training platform contains free content on esophageal and anorectal manometric studies as well as impedance/pH reflux studies. Included are tutorials providing step-by-step guidance to develop skills in data acquisition, study analysis, and report generation. Simply go to **DiversatekU.com** to register and access available resources. Opt-in to receive notifications of upcoming training modules and webinars.

Diversatek University Denver

Our Technical Research & Training Center offers clinical education and personalized training to make learning easy and convenient. Our comprehensive clinical instruction provides users with the knowledge and skills necessary to effectively acquire and analyze High Resolution Impedance Manometry studies, impedance/pH reflux studies and anorectal manometry studies. Email us at **clinicaleducation@diversatekhc.com** to learn more about our course offerings.

Live Webinars

Diversatek Healthcare is proud to present a series of live, interactive discussions on topics related to High Resolution Impedance Manometry studies, impedance/pH reflux studies and anorectal manometry studies. Each webinar includes a didactic session followed by an open discussion. All webinars are recorded and posted to the Diversatek U online portal for easy access. Access **DiversatekHealthcare.com** for upcoming webinar announcements.



Personalized Clinical Support

Onsite Training

Diversatek Healthcare Clinical Specialists deliver product support to suit your specific needs—on your schedule. Specialists are onsite at your facility to train and support you on your Diversatek Healthcare equipment as you work through patient cases, acquire data, analyze and create patient reports. Email **sales@diversatekhc.com** to explore our options.

Virtual Training

Collaborate with one of our Clinical Specialists to receive custom virtual training on using Diversatek Healthcare equipment that is tailored to the needs of your department and staff. Reach out to **sales@diversatekhc.com** to learn more.

Virtual Clinical Support

Online and in real-time, Diversatek Healthcare Clinical Specialists work with you via screen sharing to help reinforce clinical training, to support editing techniques and skills, and to assist with analysis of complex studies. Email us at **clinicalsupport@diversatekhc.com** to schedule a 1:1 session.

Diversatek™ Healthcare

Advancing GI care by driving science, developing and delivering solutions, and providing unmatched clinical support.

DiversatekHealthcare.com

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