



Philips Sonicare  
ProtectiveClean 4500  
Sonic electric toothbrush

Built-in pressure sensor  
2 cleaning modes  
1 x BrushSync feature



HX6837/24

## Whiter teeth. Gently does it.

Whitens teeth in just 1 week.

Feel the difference of a gentle clean with our Pressure Sensor while whitening your teeth in 1 week.

### Proven to improve oral health

- Whitens teeth in just one week
- Safe & gentle on sensitive areas, orthodontics & dental work

### Optimize your brushing

- Clean and white mode

### Innovative technology

- Creates microbubbles that reach deep between teeth
- Lets you know when you're pressing too hard
- Connects smart brush handle and smart brush heads

### Designed around you

- Always know when to replace your brush heads
- Encouragement to brush thoroughly
- A great way to get used to your new toothbrush

**PHILIPS**  
**sonicare**

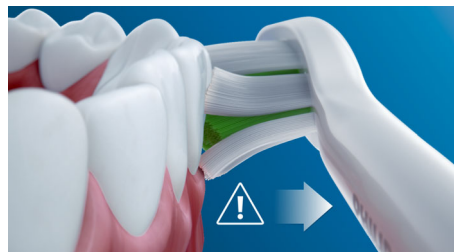
# Highlights

## Naturally whiter teeth



Click on the W DiamondClean brush head to remove surface stains and reveal a whiter smile. With its densely packed central stain-removal bristles, it's clinically proven to whiten teeth in just one week.

## Too much pressure?



You may not notice if you're brushing too hard, but your toothbrush will. If you start taking it out on your gums, the toothbrush will make a pulsing sound as a reminder to ease off on the pressure.

## Helpful timers



Our QuadPacer lets you know when you've spent just the right amount of time cleaning each part of your mouth, while our Smartimer tells you when you've brushed for the recommended two minutes.

## Clean and white mode



Whether you want to focus on removing plaque or on giving your teeth an extra good polishing, we've got you covered: Clean mode delivers superior cleaning, and White is ideal for removing surface stains.

## BrushSync technology



A microchip-enabled technology that detects and synchronizes the smart brush head with the smart handle. The smart handle and smart brush head pair is a powerful combination that enables Smart replacement reminders.

## Philips Sonicare technology



Your Sonicare brush head and handle are the ultimate team. Enhancing our sonic technology, they give you unrivaled cleaning. High-speed vibrations in your toothbrush handle power up to 31,000 brush strokes per minute that whip up your toothpaste into plaque fighting bubbles, driving them deep between your teeth and along the gum line for exceptional cleaning.

## Safe and gentle



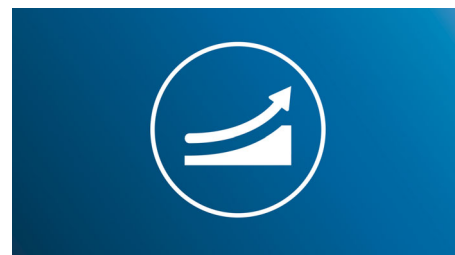
You can be sure of a safe brushing experience: our sonic technology is suitable for use with braces, fillings, crowns, and veneers, and helps prevent cavities and improve gum health.

## BrushSync replacement reminder



All brush heads wear out over time. But our BrushSync technology tracks how long you've been using your brush head for, and how hard you've been brushing. When it's time to replace it, a light on your handle and a short beep will let you know. That way, you can be sure your brush head is doing a good job.

## Easy-start program



Starting something new can take getting used to. That's why our easy-start program gives you the option of a gradual, gentle increase in brushing power the first 14 times you use your new toothbrush.

# Specifications

## Modes

- Clean: For exceptional everyday clean
- White: Removes surface stains

## Items included

- Handles: 1 ProtectiveClean
- Brush heads: 1 W2 Optimal White
- Charger: 1

## Design and finishing

- Color: White and Mint

## Cleaning performance

- Speed: Up to 62000 brush movement/min
- Health benefits: Helps reduce cavities
- Whitening benefits: Whitens teeth in 1 week
- Pressure feedback: Vibrates handle to alert user
- Timer: Smartimer and Quadpacer

## Smart sensor technology

- Pressure sensor: Alerts when brushing too hard
- BrushSync Replacement Reminder: Always know

when to, replace brush heads

## Ease of use

- Handle compatibility: Easy click-on brush heads
- Brush head recognition: Syncs with optimal mode
- Replacement reminder: To always ensure best results, reminder icon lights up
- Battery indicator: Light shows battery status
- Handle: Slim ergonomic design
- Brushing time: Up to 2 weeks

## Technical specifications

- Battery: Rechargeable
- Battery type: Lithium ION
- Operating time (full to empty): Up to 2 weeks

## Power

- Voltage: 110-220 V

## Service

- Warranty: 2-year limited warranty



Issue date 2018-02-28

Version: 5.1.1

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\* than a manual toothbrush