

D88+



Quality you can trust. Efficiency you can count on.

A cost-effective, proven industry standard for traditional dental radiographic systems, Carestream Dental Intraoral Film delivers high-quality images with outstanding Carestream Dental Intraoral D-Speed processing and handling characteristics. The D88+ packet offers all the benefits of Carestream Dental Film with the added convenience of processing within the packet. Available in size 2 for bite-wing or periapical exams, this film quickly delivers fine detail – without the hassle of traditional film processing or use of a darkroom.

Benefits include:

- Rapid processing due to Carestream Dental's T-Grain film technology
- Available in 100-packet boxes, requiring less storage space and ensuring use before expiration
- Enhanced processing robustness – providing more tolerance to chemistry variations
- Rapid film development, enhancing efficiency
- Chairside processing for immediate results
- Space savings in the dental clinic – no processing equipment required
- Thinner packets mean enhanced patient comfort

Simple and Easy to Use

The D88+ packet delivers high-quality dental images with outstanding processing and handling characteristics with the added convenience of processing within the packet. The D88+ packet is designed to be simple and easy to use. All that is needed is a syringe and processing solution to get started.

How to use

Simply inject processing solution into the exposed packet with syringe taking care not to scratch the film. Gently massage the packet, open and remove the film. Rinse for two minutes with clean water and the radiograph is ready to view.



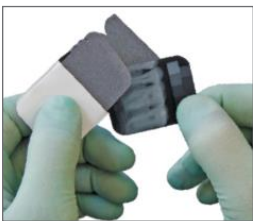
▶ STEP 1

- After film exposure, fill syringe with 2 ml¹ of chemistry.
- Insert syringe into the top of the packet and inject the monobath solution.
- Be careful not to insert needle too deep and scratch the film.



▶ STEP 2

- Carefully cover the injection site hole with your finger and gently massage the film packet for 80 seconds by rubbing the packet between the thumb and index finger over the entire length of the pouch.



▶ STEP 3

- After 80 seconds, open the film packet, and remove the film from the packet and paper wrap.
- Rinse thoroughly with clean water for 2 minutes.
- Please follow your local regulations for handling and disposing of processing chemistry and films.



▶ STEP 4

- View your x-ray for diagnosis.
- To improve image longevity, rinse thoroughly and dry as normal.

Storage and handling

Storage

Unexposed:

- 10–24 °C (50–75 °F) X Do not refrigerate or freeze as this can cause condensation to occur.
- 30–50%RH
- Protect from heat and radioactive sources. Film is to be properly shielded from x-rays, gamma rays or penetrating radiation.

Exposed:

- Keep cool, dry and properly shielded from penetrating radiation. Process as soon as possible.

Handling

Hands must be clean, dry and free of lotions, etc. Film should be handled carefully by the edges to avoid physical strains such as pressure, creasing or buckling. Luminous watches, cell phones and darkroom light leaks should be avoided.

Monobath

Monobath is a ready-to-use solution (no dilution required) that combines developer and fixer enabling one-step processing of the film inside its packet.

REF No.	Invoice Description
4983078	CARESTREAM Dental X-ray Monobath 110 ml



Processing Information

Simply inject processing solution into the exposed packet with a syringe taking care not to scratch the film. Carefully cover the hole and gently massage the packet, open and remove the film. Rinse for 2 minutes with clean water and the radiograph is ready to view.

Recommended exposure settings*

Region/Settings	Exposure time in seconds *(20 cm/8" cone)				
	60 kVp, 7 mA	65 kVp, 7.5 mA	65 kVp, 8 mA	70 kVp, 7 mA	70 kVp, 8 mA
MAXILLARY					
Anterior	0.25	0.14	0.14	0.12	0.11
Premolar	0.33	0.19	0.18	0.16	0.14
Molar	0.37	0.22	0.20	0.19	0.16
MANDIBULAR					
Anterior	0.21	0.12	0.11	0.10	0.09
Premolar	0.23	0.13	0.12	0.11	0.10
Molar	0.25	0.14	0.14	0.12	0.11
BITE-WING					
Premolar	0.25	0.14	0.14	0.12	0.11

*NOTE: For large patients, increase time by approximately 25%.

For children, small or edentulous patients, decrease time by approximately 30%.

30 cm/12" cone x 2.25 40 cm/16" cone x 4

Processing amount, time and temperature recommendations*

Amount of Solution Injected into Packet	Development Time		
	15 °C	20 °C	32 °C
1 ml	150 seconds	120 seconds	80 seconds
2 ml	100 seconds	80 seconds	60 seconds
3 ml	80 seconds	60 seconds	45 seconds

1. 2 ml of solutions with a 80 second development time is recommended starting point. Adjust as needed.

*Results based on use of Carestream Dental X-Ray Monobath. Use of other chemistries may require different development times.

Use of different solution volumes may produce variances in image quality. These are starting points. Adjust as needed.

NOTE: Follow standard safety procedures for handling and processing chemicals, such as the use of protective gloves and goggles.

NOTE: Exposure times are starting guidelines only. Exposure times may vary depending on the manufacturer of the x-ray unit.

Adjust as needed based on your exposing unit.

NOTE: Not recommended for archival keeping.

Ordering Information for D88+ Dental Film

Size	Nominal Film Size	Invoice Description	Product Description	Films per Box	REF No
Size 2	31 x 41 mm	D88+ 100PKT 31 x 41 film	Packet designed for injection processing	100	655 1089

Detail is everything. That's why, despite having set the industry standard, we continue to search for ways to improve the image quality that our systems can deliver. It's all in the name of diagnostic excellence, which is fundamental to gaining your patients' confidence and optimizing their care.

For more information, call **800.933.8031** or visit **carestream.com**.