ABOUT LIGHTFORCE
Delivering the most significant advancement in bracket-based treatment protocol in the past 50 years, LightForce unites cutting-edge 3D-printing technology with the latest in digital treatment planning to produce a patient-specific prescription for each case. With LightForce, the patient is the prescription and the orthodontic professional is in control.

1035 Cambridge Street
Cambridge, MA 02141
(800) 481-0185
lightforceortho.com
THE LIGHTFORCE SYSTEM: TECHNOLOGICAL INNOVATION MEETS ORTHODONTIC IMAGINATION

The LightForce System combines a proprietary digital treatment planning platform with advanced 3D-printing technology to make patient specific prescription brackets a reality for the first time ever.

THE IDEAL BRACKET PRESCRIPTION: EVERY TOOTH, EVERY CASE

Using breakthrough additive manufacturing techniques, LightForce custom brackets overcome the treatment inefficiencies that are inherent in standard prescriptions.

PREDICTIVE PLACEMENT: THE PERFECT MARRIAGE OF DIGITAL CUSTOMIZATION AND IDB TECHNOLOGY

Highly accurate LightForce IDB trays precisely translate the virtual treatment plan to the prescribed bracket position.

ANATOMICALLY MATCHED CUSTOM BONDING BASE

- LightForce
  - Maintains Rx accuracy
  - Ideal fit for improved retention
  - Accommodates irregular tooth morphology

- Traditional
  - One-size-fits-all approach
  - Inconsistent bond strength
  - No accommodation for irregular morphology

FULLY DIGITAL WORKFLOW: FAST, ACCURATE, SIMPLE

LightForce orthodontists create fully custom appliances with anatomically individualized bonding bases and custom programming driven exclusively by the patient’s anatomy and the orthodontic treatment plan.

1. **scan**
   - A digital impression of the teeth is taken using the scanner of your choice.

2. **treatment plan**
   - The LightForce software generates an ideal smile treatment plan for you to review, edit and confirm.

3. **fabricate**
   - A custom set of brackets are created and shipped to your practice within 10 business days.

AN INDIVIDUALLY INVENTED 3D-PRINTED BRACKET FOR EACH TOOTH

- Patient specific programming eliminates the inefficiencies inherent in generic prescriptions
- Parallel precision of slot walls that eliminates divergence and dimensional variability
- Chamfered slot wall designed to prevent archwire binding, notching or crimping
- 100% mechanical base with under-loc™ system for superior retention
- Breakaway base designed to fold with moderate mesial distal pressure for reliable debonding
UNBOXING A REVOLUTION
Each LightForce prescription arrives pre-loaded into one of six, individual indirect bonding trays for easy, accurate bonding. Each case also comes with a complete second set of patient-specific back-up braces.

LIGHTFORCE INDIRECT BONDING TRAYS
Fully-customized 3D-printed brackets demand high-tech IDB trays. The unique features of our trays reflect the fact that they were designed by orthodontists for orthodontists.

- The ideal combination of pliability and stiffness for easy placement while maintaining ideal bracket position
- Occlusal surface is flat and broad for secure comfortable finger position during seating
- Anterior section incorporates a unique “canine rest” that prevents rocking during placement

LIGHTFORCE CUSTOMIZATION:
A NEW LEVEL OF FLEXIBILITY AND BIOMECHANICAL POSSIBILITIES
REWITING THE ORTHO TEXT BOOK

OFF-AXIS M-D PLACEMENT
- Unwanted rotation with standard brackets
- Dynamic compensation in the LightForce bracket design
- LightForce brackets retain intended straight-wire programming

CLINICAL USES
- Avoid occlusal interferences
- Bond crowded teeth when FA point is not clinically accessible

POSITION INCISALLY OR GINGIVALLY TO THE FA POINT
- Torque RX is lost with standard brackets
- Dynamic compensation in the LightForce bracket design
- LightForce brackets retain the desired prescription

CLINICAL USES
- Avoid occlusal interferences on lower teeth
- Intrude or extrude teeth without changing Rx

Getting Started with LightForceortho.com
1) Click “Doctor Portal” on the site navigation menu
2) Register and set up your treatment preferences
3) Upload scans and start your case

DOCTOR PORTAL
LIGHTFORCE TECHNOLOGY MEETS ORTHODONTIC CREATIVITY

**case study #1**

Eleven year, 8 month old female with deep bite, class I occlusion, and mild lower crowding with partially erupted and rotated upper UL3.

Treatment Progress: 5 months, 3 appointments

**initial**

LF set-up planned to open bite via reverse COS (built into bracket positioning), and to extrude and derotate the partially erupted UL3. U/L torque set to achieve ideal anterior coupling.

**bonding**

Progress: UL3 is extruded and derotated, bite has opened U/L: .016 x .022 NiTi wires.

**progress #1**

3 months


**progress #2**

5 months

Optimized rotation on UL3 in .014 NiTi

**debonding**

Before: 4 lower incisors

After: 3 lower incisors

**case study #2**

Twenty-eight year old adult male presents with deep bite, 4mm upper and 10mm lower crowding.

Treatment Summary: 10 months, 6 appointments

3 wires .014 NiTi, .016 x .022 NiTi, .016 x .022 SS

**initial**

LF set-up planned to open bite via reverse COS in lower, optimize anterior torque (procline remaining 3 lower incisors, retrocline upper incisors) while optimizing vertical position.

**progress #1**

6 months

Teeth are aligned and LL1 space is closed, class III elastic on the R, .016 x .022 NiTi U/L.

**progress #2**

10 months

OB and OJ optimized to account for anterior coupling and smile arch, while optimized anterior torque was preserved - retroclined U incisors, proclined lower incisors.